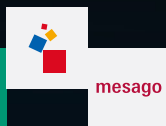


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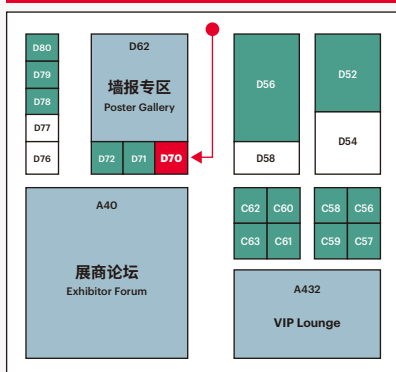
PrimePACK™ is registered trademark of Infineon Technologies AG, Germany.

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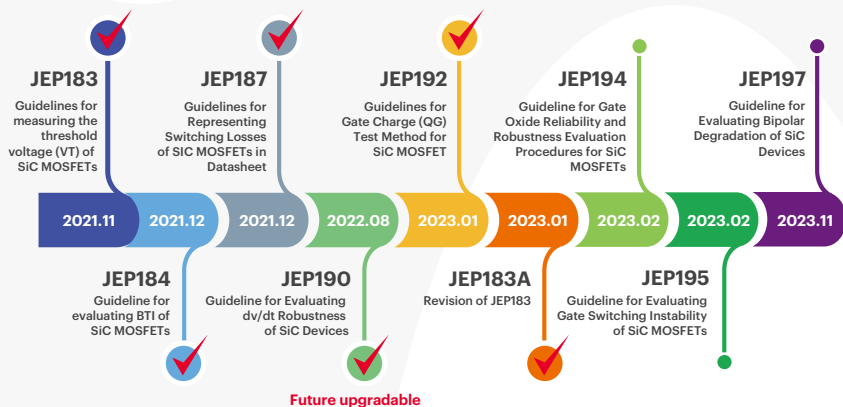
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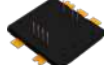
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产品型号		绝对最大额定值(TJ=25°C)				Heat Sink Assembly	Module Type	AQG 324 Qualified				
		V _{DS} [V]	R _{DS(on)} [mΩ]	DC Current [A] ^{※1}	AC Current [A] ^{※2}							
New	BST500D08P4A104	750	2.0	506	417	TIM: heat dissipation sheet	Small	 A type (Small) (41.6mm × 52.5mm)	YES			
☆	BST500D08P4A114				429	Ag Sinter						
New	BST400D12P4A101	1,200	2.8	394	326	TIM: heat dissipation sheet						
☆	BST400D12P4A111				336	Ag Sinter						
New	BST740D08P4A154	750	1.4	738	634	TIM: heat dissipation sheet	Large	 A type (Large) (58.6mm × 52.5mm)				
☆	BST1040D08P4A156		1.0	1,039	736	Ag Sinter						
☆	BST740D08P4A164		1.4	738	659							
☆	BST1040D08P4A166		1.0	1,039	771							
New	BST580D12P4A151	1,200	1.9	575	475	TIM: heat dissipation sheet						
☆	BST780D12P4A153		1.2	778	571	Ag Sinter						
☆	BST580D12P4A161		1.9	575	494							
☆	BST780D12P4A163		1.2	778	593							

☆: 开发中

※1: T_c=60°C, V_{DS}=18V

※2: T_c=65°C, V_{GS}=800V/500V, f_{sw}=10kHz, Modulation=0.9, Power factor=0.9

AQG 324是ECPE(European Center for Power Electronics)制定的车载功率模块相关的认证标准。

欧洲的汽车制造商在评估是否采用时要求产品要符合该标准。

TRCDRIVE pack™和EcoSiC™是ROHM Co., Ltd.的商标或注册商标。

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成立于2011年, 专注于为国内高科技电子、半导体、通信等行业提供先进的电子设计自动化 (EDA)、工程仿真分析 (CAE)、半导体器件热阻 (Rth) 及功率循环 (Power Cycling) 热可靠性测试, 以及研发数据信息化管理的解决方案和产品服务。

我们的合作伙伴包括: Siemens EDA (原Mentor)、Siemens Simcenter (西门子, CAE)、ATS (热测试设备)、Moldex3D等。贝思科尔同时拥有十多项自主知识产权的软件产品, 如能快速提高设计效率的BST工具, 方便实用的电子设计在线评审平台, 用于SMT焊接温度曲线的智能仿真系统等。目前公司已拥有软件著作权55项和发明专利2项。公司于2016年、2019年、2022年三次被认定为“国家高新技术企业”, 并被认定为“2023年深圳市专精特新中小企业”。

产品介绍

Power Tester 功率循环测试设备



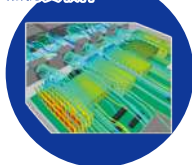
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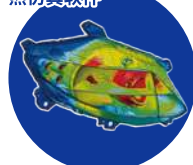
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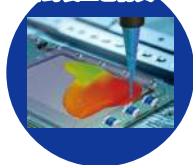
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软件, 全球80%以上电子
热设计工程师的选择

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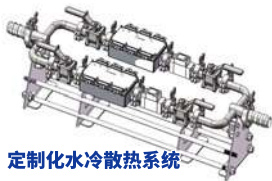
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定制化服务



定制化水冷散热系统



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实验室介绍

贝思科尔半导体热可靠性实验室, 配备了行业领先的瞬态热阻测试仪T3ster (2套), 界面材料热导率测试仪DynTIM (1套) 测量设备以及搭配了若干测试载板/夹具, 水冷板/HPD水道等散热装置; 另外也拥有专业的电子电路研发设计及仿真工具: PADS/Xpediton/Flotherm/FloEFD/Star-CCM+等软件。

实验室目前具备量测LED/OLED芯片、功率MOSFET、二极管、三极管、集成电路IC及IGBT等单管和模块的热特性参数的能力, 包含Si/SiC/GaN器件及模块的结温、热阻、热导率、功率循环 (PCsec & PCmin) 等参数测试能力, 具备AECQ101和AQG324的功率循环可靠性评估、失效分析、寿命预估等能力。



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公司简介

展微电子作为一家中国本土的功率器件公司,公司已经可以提供IGBT单管、IGBT模块、SiC单管、SiC模块等一系列功率半导体产品,应用市场非常广泛。公司已经具备芯片设计、仿真能力、模块生产、可靠性测试及应用验证的方案、测试支持等综合能力,公司目前已经通过AEC-Q101、AEC-Q102、AEC-Q103、AEC-Q104、AEC-Q105、AEC-Q106、AEC-Q107、AEC-Q108、AEC-Q109、AEC-Q110、AEC-Q111、AEC-Q112、AEC-Q113、AEC-Q114、AEC-Q115、AEC-Q116、AEC-Q117、AEC-Q118、AEC-Q119、AEC-Q120、AEC-Q121、AEC-Q122、AEC-Q123、AEC-Q124、AEC-Q125、AEC-Q126、AEC-Q127、AEC-Q128、AEC-Q129、AEC-Q130、AEC-Q131、AEC-Q132、AEC-Q133、AEC-Q134、AEC-Q135、AEC-Q136、AEC-Q137、AEC-Q138、AEC-Q139、AEC-Q140、AEC-Q141、AEC-Q142、AEC-Q143、AEC-Q144、AEC-Q145、AEC-Q146、AEC-Q147、AEC-Q148、AEC-Q149、AEC-Q150、AEC-Q151、AEC-Q152、AEC-Q153、AEC-Q154、AEC-Q155、AEC-Q156、AEC-Q157、AEC-Q158、AEC-Q159、AEC-Q160、AEC-Q161、AEC-Q162、AEC-Q163、AEC-Q164、AEC-Q165、AEC-Q166、AEC-Q167、AEC-Q168、AEC-Q169、AEC-Q170、AEC-Q171、AEC-Q172、AEC-Q173、AEC-Q174、AEC-Q175、AEC-Q176、AEC-Q177、AEC-Q178、AEC-Q179、AEC-Q180、AEC-Q181、AEC-Q182、AEC-Q183、AEC-Q184、AEC-Q185、AEC-Q186、AEC-Q187、AEC-Q188、AEC-Q189、AEC-Q190、AEC-Q191、AEC-Q192、AEC-Q193、AEC-Q194、AEC-Q195、AEC-Q196、AEC-Q197、AEC-Q198、AEC-Q199、AEC-Q200、AEC-Q201、AEC-Q202、AEC-Q203、AEC-Q204、AEC-Q205、AEC-Q206、AEC-Q207、AEC-Q208、AEC-Q209、AEC-Q210、AEC-Q211、AEC-Q212、AEC-Q213、AEC-Q214、AEC-Q215、AEC-Q216、AEC-Q217、AEC-Q218、AEC-Q219、AEC-Q220、AEC-Q221、AEC-Q222、AEC-Q223、AEC-Q224、AEC-Q225、AEC-Q226、AEC-Q227、AEC-Q228、AEC-Q229、AEC-Q230、AEC-Q231、AEC-Q232、AEC-Q233、AEC-Q234、AEC-Q235、AEC-Q236、AEC-Q237、AEC-Q238、AEC-Q239、AEC-Q240、AEC-Q241、AEC-Q242、AEC-Q243、AEC-Q244、AEC-Q245、AEC-Q246、AEC-Q247、AEC-Q248、AEC-Q249、AEC-Q250、AEC-Q251、AEC-Q252、AEC-Q253、AEC-Q254、AEC-Q255、AEC-Q256、AEC-Q257、AEC-Q258、AEC-Q259、AEC-Q260、AEC-Q261、AEC-Q262、AEC-Q263、AEC-Q264、AEC-Q265、AEC-Q266、AEC-Q267、AEC-Q268、AEC-Q269、AEC-Q270、AEC-Q271、AEC-Q272、AEC-Q273、AEC-Q274、AEC-Q275、AEC-Q276、AEC-Q277、AEC-Q278、AEC-Q279、AEC-Q280、AEC-Q281、AEC-Q282、AEC-Q283、AEC-Q284、AEC-Q285、AEC-Q286、AEC-Q287、AEC-Q288、AEC-Q289、AEC-Q290、AEC-Q291、AEC-Q292、AEC-Q293、AEC-Q294、AEC-Q295、AEC-Q296、AEC-Q297、AEC-Q298、AEC-Q299、AEC-Q300、AEC-Q301、AEC-Q302、AEC-Q303、AEC-Q304、AEC-Q305、AEC-Q306、AEC-Q307、AEC-Q308、AEC-Q309、AEC-Q310、AEC-Q311、AEC-Q312、AEC-Q313、AEC-Q314、AEC-Q315、AEC-Q316、AEC-Q317、AEC-Q318、AEC-Q319、AEC-Q320、AEC-Q321、AEC-Q322、AEC-Q323、AEC-Q324、AEC-Q325、AEC-Q326、AEC-Q327、AEC-Q328、AEC-Q329、AEC-Q330、AEC-Q331、AEC-Q332、AEC-Q333、AEC-Q334、AEC-Q335、AEC-Q336、AEC-Q337、AEC-Q338、AEC-Q339、AEC-Q340、AEC-Q341、AEC-Q342、AEC-Q343、AEC-Q344、AEC-Q345、AEC-Q346、AEC-Q347、AEC-Q348、AEC-Q349、AEC-Q350、AEC-Q351、AEC-Q352、AEC-Q353、AEC-Q354、AEC-Q355、AEC-Q356、AEC-Q357、AEC-Q358、AEC-Q359、AEC-Q360、AEC-Q361、AEC-Q362、AEC-Q363、AEC-Q364、AEC-Q365、AEC-Q366、AEC-Q367、AEC-Q368、AEC-Q369、AEC-Q370、AEC-Q371、AEC-Q372、AEC-Q373、AEC-Q374、AEC-Q375、AEC-Q376、AEC-Q377、AEC-Q378、AEC-Q379、AEC-Q380、AEC-Q381、AEC-Q382、AEC-Q383、AEC-Q384、AEC-Q385、AEC-Q386、AEC-Q387、AEC-Q388、AEC-Q389、AEC-Q390、AEC-Q391、AEC-Q392、AEC-Q393、AEC-Q394、AEC-Q395、AEC-Q396、AEC-Q397、AEC-Q398、AEC-Q399、AEC-Q400、AEC-Q401、AEC-Q402、AEC-Q403、AEC-Q404、AEC-Q405、AEC-Q406、AEC-Q407、AEC-Q408、AEC-Q409、AEC-Q410、AEC-Q411、AEC-Q412、AEC-Q413、AEC-Q414、AEC-Q415、AEC-Q416、AEC-Q417、AEC-Q418、AEC-Q419、AEC-Q420、AEC-Q421、AEC-Q422、AEC-Q423、AEC-Q424、AEC-Q425、AEC-Q426、AEC-Q427、AEC-Q428、AEC-Q429、AEC-Q430、AEC-Q431、AEC-Q432、AEC-Q433、AEC-Q434、AEC-Q435、AEC-Q436、AEC-Q437、AEC-Q438、AEC-Q439、AEC-Q440、AEC-Q441、AEC-Q442、AEC-Q443、AEC-Q444、AEC-Q445、AEC-Q446、AEC-Q447、AEC-Q448、AEC-Q449、AEC-Q450、AEC-Q451、AEC-Q452、AEC-Q453、AEC-Q454、AEC-Q455、AEC-Q456、AEC-Q457、AEC-Q458、AEC-Q459、AEC-Q460、AEC-Q461、AEC-Q462、AEC-Q463、AEC-Q464、AEC-Q465、AEC-Q466、AEC-Q467、AEC-Q468、AEC-Q469、AEC-Q470、AEC-Q471、AEC-Q472、AEC-Q473、AEC-Q474、AEC-Q475、AEC-Q476、AEC-Q477、AEC-Q478、AEC-Q479、AEC-Q480、AEC-Q481、AEC-Q482、AEC-Q483、AEC-Q484、AEC-Q485、AEC-Q486、AEC-Q487、AEC-Q488、AEC-Q489、AEC-Q490、AEC-Q491、AEC-Q492、AEC-Q493、AEC-Q494、AEC-Q495、AEC-Q496、AEC-Q497、AEC-Q498、AEC-Q499、AEC-Q500、AEC-Q501、AEC-Q502、AEC-Q503、AEC-Q504、AEC-Q505、AEC-Q506、AEC-Q507、AEC-Q508、AEC-Q509、AEC-Q510、AEC-Q511、AEC-Q512、AEC-Q513、AEC-Q514、AEC-Q515、AEC-Q516、AEC-Q517、AEC-Q518、AEC-Q519、AEC-Q520、AEC-Q521、AEC-Q522、AEC-Q523、AEC-Q524、AEC-Q525、AEC-Q526、AEC-Q527、AEC-Q528、AEC-Q529、AEC-Q530、AEC-Q531、AEC-Q532、AEC-Q533、AEC-Q534、AEC-Q535、AEC-Q536、AEC-Q537、AEC-Q538、AEC-Q539、AEC-Q540、AEC-Q541、AEC-Q542、AEC-Q543、AEC-Q544、AEC-Q545、AEC-Q546、AEC-Q547、AEC-Q548、AEC-Q549、AEC-Q550、AEC-Q551、AEC-Q552、AEC-Q553、AEC-Q554、AEC-Q555、AEC-Q556、AEC-Q557、AEC-Q558、AEC-Q559、AEC-Q560、AEC-Q561、AEC-Q562、AEC-Q563、AEC-Q564、AEC-Q565、AEC-Q566、AEC-Q567、AEC-Q568、AEC-Q569、AEC-Q570、AEC-Q571、AEC-Q572、AEC-Q573、AEC-Q574、AEC-Q575、AEC-Q576、AEC-Q577、AEC-Q578、AEC-Q579、AEC-Q580、AEC-Q581、AEC-Q582、AEC-Q583、AEC-Q584、AEC-Q585、AEC-Q586、AEC-Q587、AEC-Q588、AEC-Q589、AEC-Q590、AEC-Q591、AEC-Q592、AEC-Q593、AEC-Q594、AEC-Q595、AEC-Q596、AEC-Q597、AEC-Q598、AEC-Q599、AEC-Q600、AEC-Q601、AEC-Q602、AEC-Q603、AEC-Q604、AEC-Q605、AEC-Q606、AEC-Q607、AEC-Q608、AEC-Q609、AEC-Q610、AEC-Q611、AEC-Q612、AEC-Q613、AEC-Q614、AEC-Q615、AEC-Q616、AEC-Q617、AEC-Q618、AEC-Q619、AEC-Q620、AEC-Q621、AEC-Q622、AEC-Q623、AEC-Q624、AEC-Q625、AEC-Q626、AEC-Q627、AEC-Q628、AEC-Q629、AEC-Q630、AEC-Q631、AEC-Q632、AEC-Q633、AEC-Q634、AEC-Q635、AEC-Q636、AEC-Q637、AEC-Q638、AEC-Q639、AEC-Q640、AEC-Q641、AEC-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发展集成电路产业，将公司打造成为新光源领域客户创造价值。公司坚持以技术为导向，为客户提供个性化、系统级的产品与服务，并主导行业技术标准制定。公司将继续加大研发投入，提升自主创新能力，巩固在LED领域的领先地位，为行业健康发展贡献力量。



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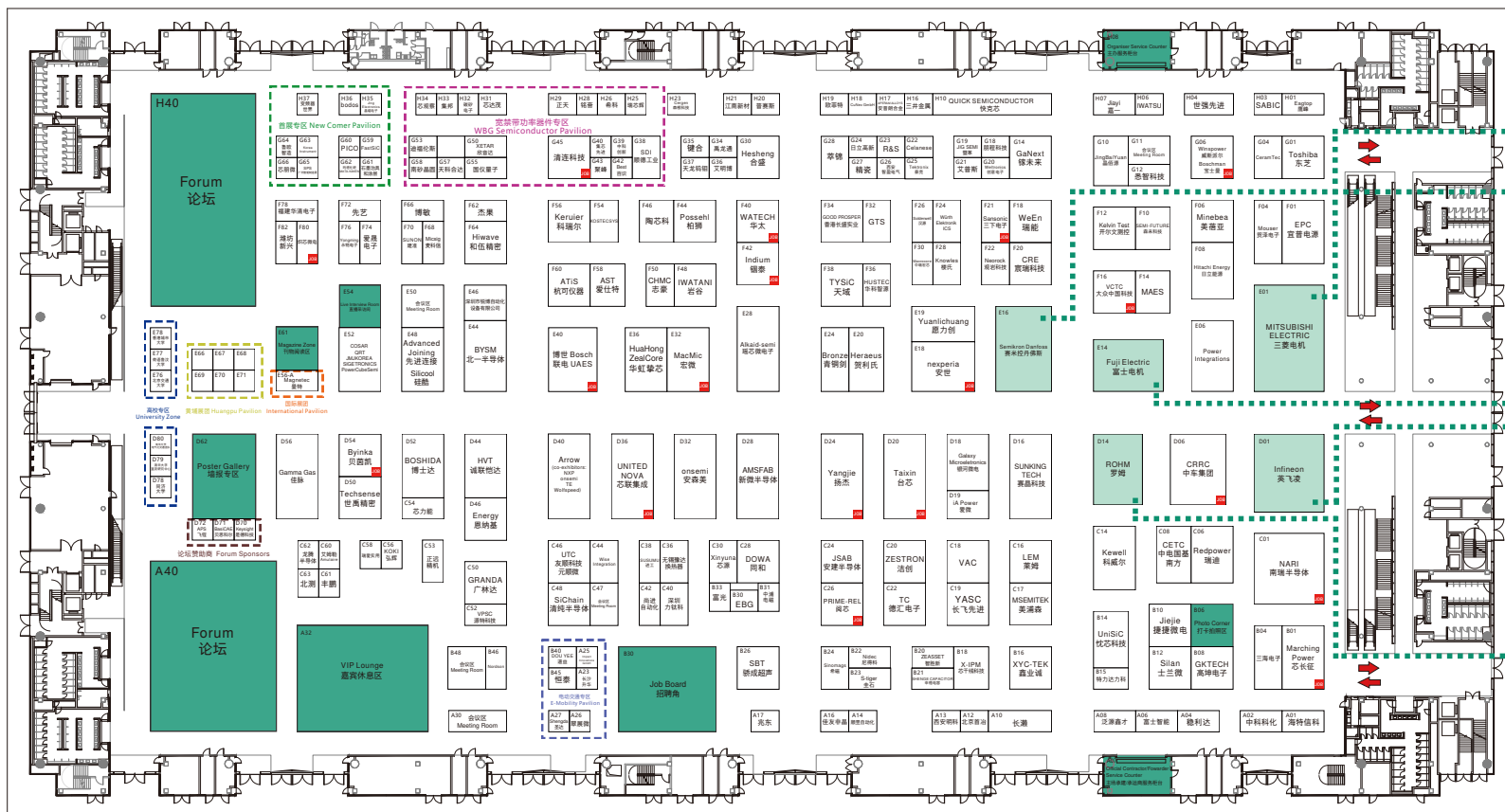
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28 — 30.8.2024

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General Information

2024 PCIM Asia 深圳国际电力元件、可再生能源管理展览会欢迎辞

我仅代表法兰克福展览，热烈欢迎所有参展企业、观众和演讲嘉宾莅临参与PCIM Asia 2024深圳国际电力元件、可再生能源管理展览会暨国际研讨会。

作为亚洲范围内，电力电子、智能运动、可再生能源和能源管理领域的领航活动，PCIM Asia将其在亚洲的母展 PCIM Expo & Conference 的专业精神传承至亚太地区。展会经过二十多年的发展，逐渐发展成为区域内深具影响力和广受认可的电力电子行业平台之一。

随着规模的不断扩大，今年展会的展览面积达20,000平方米，并有232家参展商亮相，比去年增加近了28%。参会者可亲身体验电力电子领域的最新产品，包括电力半导体和模组、无源元件、热管理系统、测试和测量设备等。

PCIM Asia 2024 继续关注并展现塑造行业未来的各个关键趋势。针对宽禁带（WBG）半导体和器件市场的不断增长，宽禁带半导体专区及配套论坛今年再度回归。同时，电动出行作为展会的核心主题，现场设有专区和一系列相关论坛，深入探讨电力电子在新能源汽车中的应用。此外，展会还将举办一场关于清洁能源和能源储存技术的研讨会。

与展会同期举行的PCIM Asia国际研讨会被认为是亚洲顶尖的电力电子会议之一。会议联合来自研究和工业领域的全球领袖，揭示最新电力电子应用，并进行深入的技术讨论。2024年会议将呈现超过100场精彩演讲，涵盖硅器件、电力转换、电动出行、封装技术等诸多主题。我诚邀各位共同参与，通过宝贵的交流，拓宽在电力电子领域的知识视野。

展会的成功举办离不开行业各方的强大支持。我们衷心感谢合作伙伴、赞助商、演讲嘉宾和支持单位为举办此次活动所付出的努力。特别要感谢PCIM Asia研讨会顾问团，他们在整个过程中提供了宝贵的指导和建议。

最后，我们衷心感谢所有参展商和观众的信任与支持。愿这三天的活动为您带来富有成效的讨论、深刻的行业见解以及专业领域广阔的发展机会。

李庆新先生
广州光亚法兰克福展览有限公司
董事长

PCIM Asia 2024 Welcome Message

On behalf of Messe Frankfurt, I would like to extend a warm welcome to all exhibitors, visitors and speakers joining us at PCIM Asia 2024, Asia's leading exhibition and conference for power electronics, intelligent motion, renewable energy and energy management.

For over two decades, PCIM Asia has brought the spirit of its renowned European sister event, PCIM Expo & Conference, to the Asia Pacific region. It has since grown into one of the most influential and widely recognised platforms for the power electronics industry in the region.

Reflecting this ongoing growth, this year's event has expanded to 20,000 sqm of exhibition space and features 232 exhibitors, exceeding last year's exhibitor count by nearly 28%. Attendees can encounter the latest offerings in power electronics, including power semiconductors and modules, passive components, thermal management systems, testing and measurement equipment and more.

PCIM Asia 2024 maintains its focus on the key developments shaping the future of the industry. Recognising the continued growth of the wide-bandgap (WBG) semiconductor and device market, it will once again include a dedicated WBG Semiconductor Zone and accompanying forum. E-mobility also remains a central theme, with a zone and forum exploring applications of power electronics in new energy vehicles. Additionally, the event offers a forum on clean energy and energy storage technologies.

Held annually in conjunction with the exhibition, the PCIM Asia Conference is recognised as one of Asia's top power electronics conferences. It unites global leaders from research and industry to present on the latest power electronics applications and conduct in-depth technical discussions. This year's programme features over 100 presentations covering topics including Si devices, power conversion, electric mobility, packaging technologies, and more. We invite you to join us and broaden your knowledge of the field through this valuable exchange of ideas.

The strength of PCIM Asia 2024 lies in its community. We sincerely thank our partners, sponsors, speakers, and supporters for their role in bringing this event to fruition. Special appreciation goes to the PCIM Asia Conference advisory board for their invaluable guidance throughout the process.

To our valued exhibitors and attendees: we thank you for your trust and involvement. May the next three days bring you fruitful discussions, meaningful insights, and ample prospects for professional development.

Mr Richard Li
Chairperson of the Board of Management
Guangzhou Guangya Messe Frankfurt Co Ltd

**各位 PCIM Asia 深圳国际电力元件、可再生能源管理展览会暨研讨会的参与者：**

我们诚挚地欢迎所有研讨会与会者、参展商和观众来到PCIM Asia深圳国际电力元件、可再生能源管理展览会暨研讨会。自2002年起，展会便成功进驻中国市场，并持续深耕，成为国内目前唯一专注电力电子领域及智能运动、可再生能源、能源管理领域应用的专业展览会。我们很高兴看到展会今年再度回归深圳，这无疑为华南地区电力电子产业的协作创新注入强劲动力，并大力推动光伏、储能、智能工控、汽车电子系统、医疗电子等高端产业的蓬勃发展。

我们相信，凭借展会覆盖广泛的应用领域和客户群体，PCIM Asia 将再次搭上行业发展的“高铁列车”，为行业各方打造一个共赢的辉煌舞台。本届展会展览面积达 20,000 平方米，汇聚232家新老参展企业。展会期间还将举办多场高端论坛、专业会议和丰富多彩的活动，共同深入探讨电力电子、智能运动、可再生能源及能源管理等领域的最新热点和前沿趋势，为行业发展注入新的活力。

为进一步提升参与各方的展会体验，本届展会将再次精心打造一系列主题专区，将重点关注电力电子行业发展的关键领域，全面涵盖电力电子的各个细分市场，从功率半导体元件和模块、电气设备、被动元件和热管理，到测试测量，充分满足参与人士的多元化采购需求。这些主题专区包括：电动交通专区、宽禁带半导体展区、研讨会墙报交流专区（PCIM Asia 国际研讨会的一部份）以及高校专区。

同期举行的2024年PCIM Asia 国际研讨会也将再次为来自全球各地的专家领袖提供互动交流的专业平台，他们将在研讨会中发表多达100 场演讲，分享最新科研成果及专业知识，为与会者带来一场行业信息的盛宴。

研讨会演讲将以英语进行，多位国际专家将为所有参与人士带来多样化的分享，涵盖电力电子领域的多个前沿话题。亮点包括多场聚焦行业前沿趋势的演讲，其中主题包括：节能社会的功率半导体——IEC白皮书概述（演讲嘉宾：日本，三菱电机，Gourab Majumdar 博士）、电力电子变压器在现代电力系统中的研究现状与问题（演讲嘉宾：中国，哈尔滨工业大学，徐殿国教授）、功率半导体在未来可再生资源和电气化中的应用（演讲嘉宾：瑞士，日立能源，Rainer Kaesmaier博士）。

在此，我们衷心感谢在过去一年里为本届PCIM Asia的组织及主题提供专业意见的多方人士。特别要感谢欧洲电力电子中心的研讨会主席Leo Lorenz教授、研讨会顾问团及技术委员会的大力支持与指导，以及所有演讲嘉宾的贡献和投入。

我们还要诚挚的感谢长期赞助商三菱电机、赛米控丹佛斯、富士电机、英飞凌科技和罗姆半导体多年来对 PCIM Asia的坚定支持与陪伴。

最后，我们代表美赛高法兰克福展览有限公司，向所有参展商、研讨会观众以及参与各方致以最美好的祝愿。希望在2024年PCIM Asia展览会暨研讨会中，大家都能满载而归，收获满满的知识与商机。

Petra Haarburger

总裁

美赛高法兰克福展览有限公司



Dear PCIM Asia participants,

It is our great pleasure to welcome all conference attendees, exhibitors, and visitors to PCIM Asia. Since 2002, PCIM Asia has been integrated in the Chinese exhibition market and is the only exhibition specialised in power electronics and its applications in the fields of intelligent motion, renewable energy, and energy management. This year, PCIM Asia will take place in Shenzhen once again to promote collaboration and innovation in South China's electronics industry and to enhance the development of the country's high-end industry, especially in the fields of photovoltaic, energy storage, intelligent industrial control, automotive electronics, and medical electronics.

We believe that PCIM Asia will once again catch the "fast train" of industrial development, covering a wide range of application fields and customer groups and forming a win-win situation for all parties involved. With an exhibition space of 20,000 sqm and 232 exhibitors, PCIM Asia welcomes exhibitors both new and old, along with a variety of forums, conferences and events exploring the latest trends and innovations within power electronics, intelligent motion, renewable energy, and energy management.

To further enhance the experience for visitors and exhibitors, PCIM Asia will once again feature a range of thematic zones which highlight key areas in the development of power electronics. These include the E-mobility Zone, the WBG Semiconductor Zone, the Poster Session Area (a part of the Conference) and the University Zone. Covering the complete spectrum of power electronics, from power semiconductor components and modules, electrical devices, passive components and thermal management to testing and measurement, the fair will cater to everyone's sourcing needs.

The PCIM Asia Conference 2024 will once again provide a platform for industry professionals from around the world to connect and share ideas. Experts have contributed with more than 100 presentations on a wide range of topics within the industry and shared their expertise.

The presentations being held in English by international power electronics experts offer all attendees a diverse programme. Highlights include keynote presentations from Dr Gourab Majumdar, Mitsubishi Electric Corporation, Japan (Topic: Power semiconductors for an energy-wise society - A brief review of IEC whitepaper), Prof Dianguo Xu, Harbin Institute of Technology, China (Topic: Solid state transformer in modern power system), and Dr Rainer Kaesmaier, Hitachi Energy, Switzerland (Topic: Power semiconductors applications within future renewable energy and electrification industry).

We would like to express our gratitude to all who gave their professional advice and topical input in the year leading up to PCIM Asia 2024. Special thanks go to our Chairperson Prof Dr Leo Lorenz from ECPE, as well as our Conference Board of Directors and Technical Committee for their continuous support. Our thanks also go to all speakers for their high level of personal commitment and contributions.

We also would like to thank our longstanding sponsors Mitsubishi Electric, Semikron Danfoss, Fuji Electric, Infineon Technologies and ROHM Semiconductor for their continuous support of PCIM Asia.

On behalf of Mesago Messe Frankfurt GmbH, we wish all visitors, exhibitors and conference delegates successful and beneficial exhibition and conference days at PCIM Asia 2024.

Petra Haarbuerger
President
Mesago Messe Frankfurt GmbH

展会名称	深圳国际电力元件、可再生能源管理展览会		
日期	2024年8月28至30日		
展馆地点	深圳国际会展中心 深圳市宝安区福海街道展城路一号		
开放时间	2024年8月28至29日	9:30至17:00	
	2024年8月30日	9:30至16:00	
入场资格	展会只对业内人士开放，18岁以下人士谢绝入场		
主办单位	广州光亚法兰克福展览有限公司		
展会联系	国内联系		



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Messe Frankfurt Group

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电子邮箱: pcimasia@mesago.com

网址: www.mesago.de

Show Name	PCIM Asia International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management
Show Date	28 – 30 August 2024
Show Venue	Shenzhen World Exhibition & Convention Center No.1 Zhancheng Rd, Fuhai Street, Bao'an District, Shenzhen, China
Opening Hours	9:30 – 17:00 28 – 29 August 2024 9:30 – 16:00 30 August 2024
Admission	Trade visitors only
Organizer	Guangzhou Guangya Messe Frankfurt Co., Ltd.
Exhibition Contact	China Contact



messe frankfurt

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Email: pcimasia@china.messefrankfurt.com

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PCIM Asia 国际研讨会

PCIM Asia Conference



尊敬的 PCIM Asia 与会者：

热烈欢迎各位莅临PCIM Asia 2024 深圳国际电力元件、可再生能源管理展览会暨研讨会。

电力电子，这一跨时代且无所不在的领域，其应用范围之广泛，令人瞩目。它不仅涵盖了新材料、半导体器件、装配与互连技术、电路拓扑结构等多个方面，还深入到了所有与电能转换、传输、控制相关的系统和应用中。值得一提的是，现代宽禁带半导体器件的迅猛发展，为功率转换器系统的微型化进程注入了强大的动力，不仅显著提升了功率密度，还提高了能效水平。然而，在享受技术进步带来便利的同时，工程师们也面临着前所未有的挑战，特别是在热管理，以及如何最大限度地减少和控制所有分布式寄生效应（包括智能可拓展电力电子组件单元）。

PCIM Asia国际研讨会是汇集全球电力电子元件和系统工程领域的顶尖专家、工业界的领军人物和学术界的权威学者的盛会。他们与行业各方共同探讨未来的技术趋势和市场新产品，推动电力电子领域的不断发展和创新。在今年的研讨会将呈现一系列精彩的演讲，主题涵盖功率器件领域的新发展、具有出色可靠性的先进封装技术以及未来汽车和可再生能源系统中的功率转换器。此外，我想强调的是，除了三场由知名专家出席的主题演讲外，展会及研讨会还广泛覆盖了电力电子产业链上的各个环节，为与会者提供一个全面了解行业动态和技术进展的平台。PCIM Asia不仅是电力电子领域专业人士的交流平台，更是推动行业技术进步、开辟新细分市场、引领未来研究方向的重要力量。

PCIM Asia国际研讨会将展示和讨论电力电子元件和系统方面的杰出开创性成果

今年 PCIM Asia国际研讨会将深度聚焦于功率半导体器件领域的前沿突破，特别是宽禁带技术与集成电源模块的重大进展。这些创新突破不仅涵盖了超快开关器件的封装设计，还有具有延长寿命和用于预测诊断功能的传感参数，以及用于牵引和电网应用的智能数字控制功率转换概念。

研讨会亮点和未来发展方向聚焦于电力电子技术路线图

研讨会将带来三大主题演讲，分别围绕“节能社会的功率半导体”、“电力电子变压器在现代电力系统中的研究现状与问题”，以及“功率半导体在未来可再生能源与电气化中的应用”。这三大主题旨在激发与会专家的深度思考与广泛讨论，共同探索电力电子领域的最新趋势与挑战。

PCIM Asia一直特别重视来自工业界与学术界的最新研究报告，这些成果不仅代表了当前技术的最前沿，也为未来的创新提供了宝贵的灵感与启示。为了表彰在电力电子领域做出杰出贡献的优秀人才，并鼓励更多年轻学者与工程师投身这一充满挑战与机遇的领域，我们还将颁发“最佳论文奖”、“青年工程师奖”及“高校科学家奖”。

在此，我们衷心祝愿PCIM Asia国际研讨会圆满成功，期待每一位与会专家都能在此平台上畅所欲言，分享见解，共同推动电力电子技术的持续进步。愿这次盛会为您带来无限的灵感与收获，助力您在未来的产品创新与业务发展中开拓新思路，共创电力电子领域的辉煌未来。

Leo Lorenz 教授

PCIM Asia 国际研讨会主席
德国

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Dear PCIM Asia participants,

It is my great honor and pleasure to welcome all of you to the PCIM Asia 2024 Exhibition and Conference in Shenzhen.

Power Electronics is a cross-sectional and ubiquitous field as it covers many disciplines including new materials, semiconductor devices, assembly and interconnection technologies, electrical circuit topologies and control in all systems and applications dealing with electric energy. Modern wide bandgap power devices have enabled the miniaturisation of power converter systems and increase power density and efficiency ratings. However, the application engineer faces new challenges in thermal management, minimising and control of all distributed parasitics including smart scalable power electronic building blocks.

The PCIM Asia Conference brings together the world's foremost experts and decision makers from industry and academia in the field of power electronics components and system engineering to discuss future technology trends and new products on the market. In this year's PCIM Asia Conference, industry experts and leading academics will deliver presentations covering new developments in the fields of power devices, advanced packaging technologies with outstanding reliability and future power converters for automotive and renewable energy systems. I would like to stress that our technical programme covers innovations along the power electronics value added chain, in addition to featuring three leading experts for keynote presentations. PCIM Asia is a worldwide hub for designers, engineers and researchers in the field of power electronics, as well as decision makers from companies to create new market segments and trigger future avenues of research.

Outstanding pioneering work in power electronics components and systems will be shown and discussed at this year's PCIM Asia Conference

The technical programme for this year's PCIM Asia highlights new achievements in power semiconductor devices with a strong focus on WBG technologies and integrated power modules, including relevant packaging designs handling ultrafast switching devices with extended lifetime and sensing parameters for predictive diagnostic functions, as well as smart digital controlled power conversion concepts for traction and grid applications.

Conference highlights and important future directions covering the technology roadmap in power electronics

Keynote presentations on "Power semiconductors for an energy-wise society", "Solid state transformer in future power systems" as well as "Power semiconductors applications within future renewable energy and electrification industry" will attract many power electronics experts.

Special attention has been paid to research carried out by engineers from industry and academia with their presentations, as well as to the "Best Paper Award", "Young Engineer Award" and "University Scientist Award" during the PCIM Asia Conference 2024.

I wish you an enjoyable and successful conference, open dialogue with all the attending experts, and that you gain many new ideas for your future product innovation and business.

Leo Lorenz
General Conference Director
Germany

国际研讨会主席
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Miao Zhu,
Shanghai Jiao Tong
University, CN

朱淼
上海交通大学, 中国

研讨会日程

2024年8月28日，星期三				
上午	09:10-10:00	开幕致辞暨颁奖典礼 研讨会主席: Leo Lorenz, 欧洲电力电子中心, 德国 会议室9B		
	10:00 - 10:40	主题演讲 1: 节能社会的功率半导体- IEC白皮书概述 演讲人: Gourab Majumdar, 三菱电机, 日本 主持人: Leo Lorenz, 欧洲电力电子中心, 德国 会议室9B		
	10:40 - 10:55	茶歇 ☕		
	10:55 - 12:45	口述专场 1: Si器件 主持人: 康劲松, 株洲中车时代半导体, 中国 会议室9B	口述专场 2: 电能变换I 主持人: 李永东, 清华大学, 中国 会议室9C	
下午	12:45 – 13:30	午餐 🍽️		
	13:30 - 14:30	功率MOSFET和IGBT 主持人: 康劲松, 同济大学, 中国 墙报交流专场 1	先进功率模块 主持人: 汤艺, 斯达半导体, 中国 墙报交流专场 2	先进电能变换器 主持人: 许烈, 清华大学, 中国 墙报交流专场 3
	14:30 - 16:20	口述专场 3: 高压宽禁带功率器件 主持人: Gourab Majumdar, 三菱电机, 日本 会议室9B	口述专场 4: 电能变换II 主持人: 刘进军, 西安交通大学, 中国 会议室9C	

2024年8月29日，星期四				
上午	09:30-10:10	主题演讲 2: 电力电子变压器在现代电力系统中的研究现状与问题 演讲人: 徐殿国, 哈尔滨工业大学, 中国 主持人: 李永东, 清华大学, 中国 会议室9B		
	10:10 - 10:25	茶歇 ☕		
	10:25 - 12:15	口述专场 5: 宽禁带功率器件I 主持人: Naoto Fujishima, 富士电机, 日本 会议室9B	口述专场 6: 电动汽车 主持人: 汤天浩, 上海海事大学, 中国 会议室9C	
下午	12:15 – 13:30	午餐 🍽️		
	13:30 - 14:30	集成功率模块 主持人: 温旭辉, 中国科学院电工研究所, 中国 墙报交流专场 4	未来控制概念 主持人: 郭美琴, 合肥工业大学, 中国 墙报交流专场 5	SiC器件 主持人: 陈敬, 浙江大学, 中国 墙报交流专场 6
	14:30 - 16:20	口述专场 7: 封装技术I 主持人: Norbert Pluschke, 赛米控丹佛斯, 中国香港 会议室9B	口述专场 8: 电能变换III 主持人: 徐德鸿, 浙江大学, 中国 会议室9C	

2024年8月30日，星期五				
上午	09:30-10:10	主题演讲 3: 功率半导体在未来可再生能源和电气化中的应用 演讲人: Rainer Kaesmaier, 日立能源, 瑞士 主持人: 郑大鹏, 深圳禾望电气, 中国 会议室9B		
	10:10 - 10:25	茶歇 ☕		
	10:25 - 12:15	口述专场 9: 封装技术II 主持人: 应建平, 台达电子, 中国 会议室9B	口述专场 10: 智能电网 主持人: 刘腾, 中国南方电网科学研究院, 中国 会议室9C	
下午	12:15 – 13:30	午餐 🍽️		
	13:30 - 14:30	展览会参观		
	14:30 - 16:20	口述专场 11: 器件与电路 主持人: 姚刚, 上海海事大学, 中国 会议室9B	口述专场 12: 宽禁带功率器件 II 主持人: 陈子颖, 英飞凌科技, 中国 会议室9C	

Conference Agenda

Wednesday, August 28, 2024		
MORNING	09:10-10:00	Conference Opening & Award Ceremony Conference Director: Leo Lorenz, ECPE, DE Meeting Room 9B
	10:00 - 10:40	Keynote 1: Power semiconductors for an energy-wise society - A brief review of IEC whitepaper Speaker: Gourab Majumdar, Mitsubishi Electric Corporation, JP Chair: Leo Lorenz, ECPE, DE Meeting Room 9B
	10:40 - 10:55	Tea Break ☕
	10:55 - 12:45	Oral Session 1: Si Devices Chair: Haihui Luo, Zhuzhou CRRC Times Semiconductor, CN Meeting Room 9B Oral Session 2: Power Conversion I Chair: Yongdong Li, Tsinghua University, CN Meeting Room 9C
AFTERNOON	12:45 - 13:30	Lunch Break 🍽️
	13:30 - 14:30	Power MOSFET and IGBT Chair: Jinsong Kang, Tongji University, CN Poster Dialogue Session 1 Advanced Power Module Chair: Yi Tang, Starpower Semiconductor, CN Poster Dialogue Session 2 Advanced Power Converter Chair: Lie Xu, Tsinghua University, CN Poster Dialogue Session 3
	14:30 - 16:20	Oral Session 3: High Voltage WBG Chair: Gourab Majumdar, Mitsubishi Electric Corporation, JP Meeting Room 9B Oral Session 4: Power Conversion II Chair: Jinjun Liu, Xi'an Jiaotong University, CN Meeting Room 9C
Thursday, August 29, 2024		
MORNING	09:30-10:10	Keynote 2: Solid state transformer in modern power system Speaker: Dianguo Xu, Harbin Institute of Technology, CN Chair: Yongdong Li, Tsinghua University, CN Meeting Room 9B
	10:10 - 10:25	Tea Break ☕
	10:25 - 12:15	Oral Session 5: WBG I Chair: Naoto Fujishima, Fuji Electric, JP Meeting Room 9B Oral Session 6: E-mobility Chair: Tianhao Tang, Shanghai Maritime University, CN Meeting Room 9C
AFTERNOON	12:15 - 13:30	Lunch Break 🍽️
	13:30 - 14:30	Integrated Power Module Chair: Xuhui Wen, Institute of Electrical Engineering, Chinese Academy of Sciences, CN Poster Dialogue Session 4 Future Control Concept Chair: Meiqin Mao, Hefei University of Technology, CN Poster Dialogue Session 5 SiC Devices Chair: Min Chen, Zhejiang University, CN Poster Dialogue Session 6
	14:30 - 16:20	Oral Session 7: Packaging Technologies I Chair: Norbert Pluschke, Semikron Danfoss, HKSAR, CN Meeting Room 9B Oral Session 8: Power Conversion III Chair: Dehong Xu, Zhejiang University, CN Meeting Room 9C
Friday, August 30, 2024		
MORNING	09:30-10:10	Keynote 3: Power semiconductors applications within future renewable energy and electrification industry Speaker: Rainer Kaesmaier, Hitachi Energy, Switzerland Chair: Dapeng Zheng, Shenzhen Hopewind Electric, CN Meeting Room 9B
	10:10 - 10:25	Tea Break ☕
	10:25 - 12:15	Oral Session 9: Packaging Technologies II Chair: Jianping Ying, Delta Electronics, CN Meeting Room 9B Oral Session 10: Smart Grid Chair: Teng Liu, China Southern Power Grid Electric Power Research Institute, CN Meeting Room 9C
AFTERNOON	12:15 - 13:30	Lunch Break 🍽️
	13:30 - 14:30	Exhibition Visiting
	14:30 - 16:20	Oral Session 11: Peripheral Components and Circuitry Chair: Gang Yao, Shanghai Maritime University, CN Meeting Room 9B Oral Session 12: WBG II Chair: Ziying Chen, Infineon Technologies, CN Meeting Room 9C

Winner of the Best Paper Award



A 150 & 200mm engineered substrate increasing SiC power device current density up to 30%

Gonzalo Picun, Eric Guiot, Frédéric Allibert, Alexis Drouin, Walter Schwarzenbach, Soitec, France
Jürgen Leib, Tom Becker, Oleg Rusch, Fraunhofer IISB, Germany
Oral Session, 29 August 2024, Thursday, Morning, 10:35- 11:00



pcim Asia
Best Paper Award
WINNER

Short description of presentation:

The Smart Cut™ technology enables the integration of high quality SiC layer transfer for device yield optimization, combined with a low resistivity handle wafer (below 5mOhm.cm) to lower device conduction and/or switching losses both for 150mm and 200mm wafers diameter. Based on material characterisation, we anticipate a benefit of up to 15% or 30% in terms of RDSon for state of the art 1200V SiC MOSFET and JFET. 1200V SiC diodes and MOSFETs have been fabricated by Fraunhofer IISB. 1200V diodes (JBS and MPS) with voltage drop improvement by 14 to 18% at rated current have been demonstrated.



This award is sponsored by: *Changes for the Better*

Winner of Young Engineer Award



3.3kV SBD-Embedded SiC-MOSFET module for railway applications

Daichi Yoshio, Yoichi Hironaka, Shigeru Okimoto, Kenji Hatori, Mitsubishi Electric Corporation, Japan
Jian Sun, Mitsubishi Electric & Electronics (Shanghai) Co., Ltd., China

Oral Session, 28 August 2024, Wednesday, Afternoon, 15:05-15:30



pcim Asia
Young Engineer Award
WINNER

Short description of presentation:

We developed a 3.3kV SBD-Embedded SiC-MOSFET module and expanded the lineup to satisfy railway applications. The SBD-embedded SiC-MOSFETs avoid the bipolar degradation specific to SiC-MOSFET and achieve higher current density. The switching losses and thermal resistance as module are reduced compared to the conventional SiC module and the output current for inverter is significantly improved. In high-frequency applications, it is particularly advantageous as it allows for further reduction of losses in the inverter.



This award is sponsored by:

Winners of University Scientist Award



Enhanced Efficiency Wind Energy Conversion System for Ship Propulsion Applications
Christos Mademlis, ARISTOTLE UNIVERSITY OF THESSALONIKI, Greece
Oral Session, 30 August 2024, Friday, Morning, 10:35- 11:00



Failure Diagnosis and Reconfiguration Scheme for Distributed Photovoltaic Converter Array in Solar Unmanned Aerial Vehicles
Xionsen Zhang, Nanjing University of Aeronautics and Astronautics, CN
Oral Session, 29 August 2024, Thursday, Morning, 10:35-11:00



Adaptive Parametric Impedance Model Order Reduction Method for Grid-tied Renewable Energy Dominated Microgrid
Xun Jiang, Hefei University of Technology, CN
Oral Session, 30 August 2024, Friday, Morning, 11:25-11:50



Improved MRAS-based Speed Sensorless Control of PMSM Considering Inverter Nonlinearity
Longbing Song, Tsinghua university, CN
Poster Dialogue Session, 29 August 2024, Thursday, Afternoon, 13:30-14:30



Switching Loss Reduction for 3.3kV-750A Full-SiC MOSFET Module by Active Gate Driver
Sideng Hu, Zhejiang University, CN
Oral Session, 30 August 2024, Friday, Afternoon, 15:30-15:55



This award is sponsored by:

展览会

Exhibition

英飞凌科技
Infineon Technologies AG
陈子颖 Chen Ziying
高级市场顾问
Senior Marketing Consultant



英飞凌

展位号 D01
Booth No. D01



三菱电机机电（上海）有限公司
Mitsubishi Electric & Electronics (Shanghai) Co., Ltd.
宋高升 Song Gaosheng
应用技术中心总监
Senior Director, Field Application Engineering Center



展位号 E01
Booth No. E01



赛米控丹佛斯电子（珠海）有限公司
Semikron Danfoss Electronics (Zhuhai) Co., Ltd.
Norbert Pluschke
销售技术总监
Director-Sales & Technical



展位号 E16
Booth No. E16



中国电源学会与 IEEE PELS 上海联合分部, 汤天浩教授
CPSS-IEEE PELS Joint Shanghai Chapter



展商论坛 1：
宽禁带半导体器件—
氮化镓及碳化硅
Exhibitor Forum 1:
WBG_GaN & SiC

Hall 11, Booth A40
2024. 8. 28

主持人：李祥东，西安电子科技大学，教授
Xidian University

时间 / Time	演讲企业 / Company	演讲嘉宾 / Speaker	主题 / Topic
10:30-10:50	英飞凌科技 Infineon Technologies AG	程文涛，大中华区消费、计算与通讯业务市场总监	英飞凌为 AI 数据中心提供先进的高能效电源解决方案
10:50-11:10	罗姆半导体（上海）有限公司 ROHM Semiconductor (Shanghai) Co., Ltd.	欧阳荣，经理	ROHM GaN Solution 赋能高效能源转换
11:10-11:30	上海新微半导体有限公司 Advanced Micro Semiconductors Co., Ltd.	雷嘉成，研发高级经理	聚焦硅基氮化镓 展望行业“芯”未来
11:30-11:50	SwissSEM Technologies AG (赛晶半导体)	Lars Knoll, SwissSEM Chip R&D (VP)	高性能、车规级，赛晶国产 1200V SiC MOSFET 芯片
11:50-12:10	Efficient Power Conversion	Alex Lidow, CEO	The Future of Untethered Robotics: GaN-Powered Solutions for Mobility, AI, and Machine Vision
12:10-12:30	瑶芯微电子科技（上海）有限公司 Alkaid-semi Technologies (Shanghai)Co., Ltd.	朱魏清，市场 VP	SiC 新一代产品及其应用

展商论坛 2 :

功率器件

***Exhibitor Forum 2:
Power Devices***

Hall 11, Booth H40
2024. 8. 28

主持人：王顺利，内蒙古工业大学，教授
Inner Mongolia University of Technology

时间 / Time	演讲企业 / Company	演讲嘉宾 / Speaker	主题 / Topic
10:30-10:50	赛米控丹佛斯 Semikron Danfoss Electronics (Zhuhai) Co., Ltd.	孙翌, Expert Sales Manager	先进的电动汽车功率单元
10:50-11:10	三菱电机机电（上海） 有限公司 Mitsubishi Electric & Electronics(SHANGHAI) CO., LTD.	王小岭, 经理	三菱电机最新 DIPIPM™ 介绍
11:10-11:30	安森美 onsemi	WK Chong, 大中华区资深现场 技术经理	第七代 IGBT 模块：助力 新一代可再生能源和商用 车发展
11:30-11:50	成都森未科技有限公司 Chengdu Semi-Future Technology Co., Ltd.	刘粮恺, 高级产品经理	IGBT 模块：针对应用的定 制化设计
11:50-12:10	安世半导体 nexperia	胡兴江, IGBT 产品 线市场经理	安世半导体全新 650V 单 管 IGBT 为工业应用的可 靠性赋能
12:10-12:30	江苏宏微科技股份有限 公司 MacMic Science & Technology Co., Ltd.	曹帅, 应用工程师	新型功率器件在光伏逆变 及储能 PCS 中的应用

**展商论坛 3 :
宽禁带半导体器件—
碳化硅**

***Exhibitor Forum 3:
WBG_ SiC***

Hall 11, Booth A40
2024. 8. 28

主持人：茆美琴，合肥工业大学，教授
Hefei University of Technology

时间 / Time	演讲企业 / Company	演讲嘉宾 / Speaker	主题 / Topic
13:30-13:50	英飞凌科技 Infineon Technologies AG	赵天意，工业与基础设施业务 大中华区市场总监	以芯创新，碳化硅产品应用创新之路
13:50-14:10	富士电机（中国）有限公司 Fuji Electric (China) Co., Ltd.	朱伟杰，经理	适用于新能源应用的 2.3kV Si 和 SiC 模块
14:10-14:30	三菱电机机电（上海）有限公司 Mitsubishi Electric & Electronics (SHANGHAI) CO., LTD.	孙建，副经理	面向中大功率应用的三菱电机最新 SiC 功率模块
14:30-14:50	安森美 onsemi	Mrinal Das，能源解决方案事业群资深产品专家	EliteSiC M3e：推动全球电气化大趋势的催化剂
14:50-15:10	安世半导体 nexperia	王骏跃，中国区 SiC 负责人	安世碳化硅 – 超高性能，赋能电气化和绿色节能的美好未来
15:10-15:30	赛米控丹佛斯 Semikron Danfoss Electronics (Zhuhai) Co., Ltd.	赵满员，大中华区产品市场部产品经理	碳化硅模块赋能电驱系统低碳化
15:30-15:50	东芝电子元件（上海）有限公司 Toshiba Devices & Storage (Shanghai) Co., Ltd.	屈兴国，技术部 副总监	东芝碳化硅 MOS 内置 SBD
15:50-16:10	南京南瑞半导体有限公司 Nanjing NARI Semiconductor Co., Ltd.	肖鲁民，南京南瑞半导体有限公司，高级市场经理	高功率密度 SiC MOSFET 技术研究及新能源解决方案

工业论坛 1：
清洁能源与储能技术
Industry Forum 1:
Clean Energy and
Energy Storage

Hall 11, Booth H40
2024. 8. 28

主持人：张波，华南理工大学，教授
South China University of Technology

时间 / Time	演讲企业 / Company	演讲嘉宾 / Speaker	主题 / Topic
13:20-13:30	主持人开场 Chair's opening speech		
13:30-14:00	华南理工大学 South China University of Technology	张波，教授	PWM 导致高比例电力电子装备电力系统宽频振荡的机理
14:00-14:30	合肥工业大学 Hefei University of Technology	张兴，教授	基于电流源 / 电压源混合的高渗透率新能源发电并网变流器控制策略
14:30-15:00	上海交通大学 Shanghai Jiao Tong University	李睿，教授	电池储能系统精细化管控技术进展
15:00-15:30	英飞凌科技 Infineon Technologies AG	陈立烽，高级技术总监	功率半导体方案赋能高效可靠光储系统
15:30-16:00	深圳市禾望电气股份有限公司 Shenzhen Hopewind Electric Corporation Limited	郑大鹏，副总裁	氢能源利用中的电力电子装置
16:00-16:30	赛米控丹佛斯 Semikron Danfoss Electronics (Zhuhai) Co., Ltd.	叶常生，大中华区产品市场部负责人	新型功率模块在储能的应用

展商论坛 4：

材料与封装

***Exhibitor Forum 4:
Materials &
Packaging***

Hall 11, Booth A40
2024. 8. 29

主持人：姜南，无锡能芯检测科技有限公司，总经理
Wuxi Nengxin PowerSemiLab Co.,Ltd

时间 / Time	演讲企业 / Company	演讲嘉宾 / Speaker	主题 / Topic
10:10-10:30	塞拉尼斯（上海）电子材料有限公司 Celanese (Shanghai) Electronic Materials Co., Ltd.	卢跃东，总经理	Micromax™ 高热导银胶车规级半导体应用
10:30-10:50	镅泰公司 Indium Corporation	胡彦杰，华东区高级技术经理	创新型功率半导体封装材料及应用
10:50-11:10	广州汉源新材料股份有限公司 Solderwell Advanced Materials Co., Ltd.	梅云辉，技术专家	低温烧结纳米银浆产品及其面向汽车应用的封装互连技术
11:10-11:30	麦德美爱法 MacDermid Alpha	赵宇，高级业务发展经理	烧结技术：增强材料性能与生产效率
11:30-11:50	贺利氏电子 Heraeus Materials Technology Shanghai Ltd.	董侃，功率市场总监	新一代碳化硅功率器件封装解决方案
11:50-12:10	CeramTec GmbH	范围，中国区销售总监	推动变革：用于电力电子的下一代陶瓷基板
12:10-12:30	北京清连科技有限公司 Beijing QLsemi Technology Co., Ltd.	贾强，董事长 / 总经理	SiC 模块封装用纳米金属烧结技术进展及趋势

展商论坛 5 :

电动汽车

***Exhibitor Forum 5:
E-Mobility***

Hall 11, Booth H40
2024. 8. 29

主持人：康劲松，同济大学，教授
Tongji University

时间 / Time	演讲企业 / Company	演讲嘉宾 / Speaker	主题 / Topic
10:10-10:30	英飞凌科技 Infineon Technologies AG	顾伟, 汽车业务大中华区首席工程师	适用于飞控的轻量化电控解决方案
10:30-10:50	博世（中国）投资有限公司 Bosch (China) Investment Ltd.	Horvath Manuel, Power Semiconductors and Modules Engineering	博世 SiC 功率 MOSFETs 及短路介绍
10:50-11:10	沙特基础工业公司 (SABIC)	周渊, 副高级研究员	低温烧 HTV150A 高温高压 DC-LINK 电容薄膜的可靠性 结纳米银浆产品及其面向汽车应用的封装互连技术
11:10-11:30	罗姆半导体（上海）有限公司 ROHM Semiconductor (Shanghai) Co., Ltd.	苏勇锦, 高级经理	ROHM 新型 SiC 模块驱动 xEV 未来出行
11:30-11:50	赛米控丹佛斯 Semikron Danfoss Electronics (Zhuhai) Co., Ltd.	沈剑鸿, 现场应用工程师	一种创新的车规级三电平模块 eMPack
11:50-12:10	富士电机（中国）有限公司 Fuji Electric (China) Co., Ltd.	陈磊, 技术支持经理	富士车规级 IGBT 产品介绍
12:10-12:30	株洲中车时代半导体有限公司 ZHUSHOU CRRC TIMES SEMICONDUCTOR CO., LTD.	王世平, 市场部部长	面向工业与新能源设施应用的车规级 SiC 功率器件

展商论坛 6：
电力电子技术应用
Exhibitor Forum 6:
Power Electronics
Application

Hall 11, Booth A40
2024. 8. 29

主持人：姚刚，上海海事大学，教授
Shanghai Maritime University

时间 / Time	演讲企业 / Company	演讲嘉宾 / Speaker	主题 / Topic
13:30-13:50	忱芯科技（上海）有限公司 Unisic	毛赛君，CEO	SiC MOSFET 晶圆级器件级精准电性能与可靠性测试挑战与解决方案
13:50-14:10	是德科技（中国）有限公司 Keysight Technologies (China) Co., Ltd.	张纪泽，功率半导体解决方案规划师	应对宽禁带功率半导体动态参数测试挑战
14:10-14:30	Power Integrations Inc.	王皓，大功率系统工程经理	适用于可再生能源发电和储能应用的超紧凑即插即用型门极驱动器解决方案
14:30-14:50	飞程半导体（上海）有限公司 APS Shanghai Ltd.	袁建，产品市场副总监	飞程碳化硅器件在新能源市场的应用
14:50-15:10	深圳市贝思科尔软件技术有限公司 BasiCAE Technology Limited	王义浩，高级应用工程师	西门子 Simcenter MicReD 在功率器件热阻及功率循环测试的解决方案
15:10-15:30	安森美 onsemi	Andrew Yang，亚太区资深应用工程师	功率模块结温测试方法比较
15:30-15:50	楼世电子（上海）有限公司 Knowles Precision Devices	Faith Luo, Staff Application Engineer	博如何为高压电动汽车挑选安全可靠的元器件？
15:50-16:10	博世（中国）投资有限公司 Bosch (China) Investment Ltd.	冯波，研发总监	博世 SiC 赋能未来电动出行——功率模块
16:10-16:30	浙江翠展微电子有限公司 Zhejiang Cuizhan Micro electronics Co., Ltd.	凌欢，应用开发经理	高功率密度模块及一体化逆变研究

**工业论坛 2 :
电动汽车与智能运动**

***Industry Forum 2:
Electric Vehicles and
Intelligent Motion***

Hall 11, Booth H40
2024. 8. 29

主持人：康劲松，同济大学，教授
Tongji University

时间 / Time	演讲企业 / Company	演讲嘉宾 / Speaker	主题 / Topic
13:20-13:30	主持人开场 Chair's opening speech		
13:30-14:00	哈尔滨理工大学 Harbin University of Science and Technology	蔡蔚，博导教授 / 首席科学家	新能源汽车产业趋势与供 应链技术创新
14:00-14:30	浙江大学 Zhejiang University	张军明，教授	电动汽车应用中的碳化硅 器件并联有源均流技术
14:30-15:00	三菱电机机电（上海） 有限公司 Mitsubishi Electric & Electronics (SHANGHAI) CO., LTD.	赵利忠，副经理	三菱电机电动汽车用第 3 代 T-PM 解决方案
15:00-15:30	同济大学 Tongji University	黄岩军，教授	闭环自学习智能驾驶系统 关键技术
15:30-16:00	中国科学院深圳先进技 术研究院 Shenzhen Institute of Advanced Technology Chinese Academy of Science	陈春杰，教授	机器人智能运动控制的关 键技术
16:00-16:30	大众汽车（中国）科技 有限公司天津分公司 Volkswagen China Technology Company Tianjin Branch	张若岚，电子开发 部门经理	在中国，为中国：大众中 国科技有限公司电子开发 战略

展商名录

List of Exhibitors

参展商	Exhibitor	展位号 Booth No.
艾普斯电源 (苏州) 有限公司	AC Power Corp. (Preen)	G21
朋程科技股份有限公司	Actron Technology Corporation	G18
上海新微半导体有限公司	Advanced Micro Semiconductors Co., Ltd.	D28
瑶芯微电子科技有限公司 (上海) 有限公司	Alkaid-Semi Technologies (Shanghai) Co.,Ltd	E28
安徽瑞迪微电子有限公司	Anhui RedPower Microelectronics Co.,Ltd.	C06
安徽陶芯半导体新材料有限公司	Anhui Taoxinke Semiconductor New Materials Co., Ltd	F46
黄山市闾华电子有限责任公司	Huangshan Changhua Electronics Co., Ltd	F46
安徽长飞先进半导体有限公司	Anhui YOFC Advanced Semiconductor Co., Ltd.	C19
安阳佳友非晶科技有限公司	Anyang Kayo Amorphous Technology Co.Ltd	A16
安普朗合金 (远东) 有限公司	APERAM ALLOYS (FAR EAST) CO., LTD.	H17
飞程半导体 (上海) 有限公司	APS Shanghai Ltd.	D72
艾睿电子 (联合参展商: 恩智浦, 安森美, TE & Wolfspeed)	Arrow Electronics (Co-exhibitor: NXP, onsemi, TE & Wolfspeed)	D40
安泰天龙钨钼科技有限公司	ATTL Advanced Materials Co.,Ltd	G37
深圳市贝思科尔软件技术有限公司	BasiCAE Software Technology Limited	D71
北测 (上海) 电子科技有限公司	Beice(Shanghai) Electronic Technology Co., Ltd.	C63
北京贝茵凯微电子有限公司	Beijing Byinka Microelectronics Co., Ltd	D54
北京交通大学	Beijing Jiaotong University	E76
北京清连科技有限公司	Beijing QLsemi Technology Co.,Ltd	G45
北京首冶磁性材料科技有限公司	Beijing Shouye Magnetic Material Science and Technology Co., Ltd.	A12
北一半导体科技 (广东) 有限公司	Beiyi Semiconductor Technology Co Ltd	E44
南京百识电子科技有限公司	Best Compound Semiconductor Co., Ltd.	G42
浙江萃锦半导体有限公司	bestirpower	G28
重庆键合科技有限责任公司	Bonding-tech.Co.LTD	G35
博世 (中国) 投资有限公司	Bosch (China) Investment Ltd.	E40
联合汽车电子有限公司	United Automotive Electronic Systems Co., Ltd.	E40
深圳青铜剑技术有限公司	Bronze Technologies Ltd.	E24
	Celanese Micromax	G22
	CeramTec GmbH	G04
森根科技 (苏州) 有限公司	Cergen Technology (Suzhou) Co., Ltd.	H23
长沙升华微电子材料有限公司	CHANGSHA SANEWAY ELECTRONIC MATERIALS CO.,LTD	A23
常州银河世纪微电子股份有限公司	Changzhou Galaxy Century Microelectronics Co., Ltd.	D18
常州科瑞尔科技有限公司	Changzhou Keruier Technology Co.,Ltd	F56
成都观岩科技有限公司	Chengdu Neorock Technology Co., Ltd.	F22
成都森未科技有限公司	Chengdu Semi-Future Technology Co., Ltd	F10
诚联恺达科技有限公司	ChenglianKaida Technology Co.,Ltd	D44

参展商	Exhibitor	展位号 Booth No.
志豪微电子 (惠州) 有限公司	CHIPHOW MICROELECTRONICS(HUIZHOU)CO.,LTD	F50
芯朋微电子	Chipown Microelectronics Co.,Ltd.	G66
炽芯微电子技术 (苏州) 有限公司	Chixin Microelectronics Technology (Suzhou) Co.,Ltd	F80
国仪量子技术 (合肥) 股份有限公司	CIQTEK Co., Ltd.	G55
香港城市大学	City University of Hong Kong	E78
COSAR	COSAR	E52
PowerCubeSemi, Inc	PowerCubeSemi, Inc	E52
无锡科尔泰检测技术有限公司	QRT(CHINA)CO., LTD.	E52
杰美捷韩国 (株式会社)	JMJKOREA CO., LTD.	E52
细继光电有限公司	SIGETRONICS, INC.	E52
中国中车股份有限公司	CRRC Corporation Limited	D06
舒伦克金属颜料 (上海) 有限公司	CuNex GmbH	H18
清华大学能源互联网研究院直流研究中心	DC Research Center, Energy Internet Research Institute, Tsinghuasearch Institute, Tsinghua	D79
东莞柏狮精密电子有限公司	Dongguan Possehl Electronics Co., Ltd	F44
东莞市正远智能装备有限公司	Dongguan Zhengyuan Intelligent Equipment Co., Ltd	C53
道益企业	Dou Yee Enterprises	B40
同和金属技术有限公司 (日本)	DOWA METALTECH CO.,LTD.	C28
宜普电源转换公司	Efficient Power Conversion (EPC)	F01
恩纳基智能装备 (无锡) 股份有限公司	Energy Intelligent Equipment (Wuxi) Co.,Ltd.	D46
广东爱晟电子科技有限公司	EXSENSE Electronics Technology Co., Ltd.	F74
即思创意股份有限公司	Fast SiC Semiconductor Incorporated	G59
无锡富光电子仪器有限公司	FROM (WUXI)ELECTRONIC INSTRUMENT CO LTD	B33
富士电机 (中国) 有限公司	Fuji Electric (China) Co., Ltd.	E14
福建华清电子材料科技有限公司	Fujian Huaqing Electronic Material Technology Co.,Ltd	F78
珠海镓未来科技有限公司	GaNext(Zhuhai)Technology Co., Ltd.	G14
GTS 柔性材料有限公司	GTS Flexible Materials Ltd	F32
广东意杰科技有限公司	GuangDong EBG Electronics Co.,Ltd	B30
广东恒泰精密制造有限公司	Guangdong Hengtai Precision Manufacturing Co., Ltd.	B45
广东杰果新材料有限公司	Guangdong Jieguo New Material Co.,Ltd	F62
广东天域半导体股份有限公司	Guangdong Tianyu Semiconductor.,Ltd.	F38
广州长瀚贸易有限公司	Guangzhou Nagase Trading Ltd	A10
广州南砂晶圆半导体技术有限公司	Guangzhou Summit Crystal Semiconductor Co.,Ltd	G58
广州先艺电子科技有限公司	Guangzhou XianYi Electronic Technology Co., Ltd.	F72
中电国基南方集团有限公司	Guoji South Co.,LTD. of China Electronics Technology Group Corporation	C08
杭州高坤电子科技有限公司	Hangzhou Gaokun Electronic Technology Co.,LTD	B08

参展商	Exhibitor	展位号 Booth No.
杭州晶磁电子有限公司	Hangzhou Jing Electronics Co., Ltd	H35
杭州三海电子科技股份有限公司	Hangzhou Sanhai Electronic Technology Co., Ltd	B04
杭州士兰微电子股份有限公司	HANGZHOU SILAN MICROELECTRONICS CO.,LTD	B12
海特信科新材料科技有限公司	Heatsink New Material Technology Co, Ltd.	A01
合肥圣达电子科技实业有限公司	Hefei Shengda Electronics Technology Industry Co., Ltd.	A27
上海贺利氏工业技术材料有限公司	Heraeus Materials Technology Shanghai Ltd	E20
日立能源	Hitachi Energy	F08
日立高新技术(上海)国际贸易有限公司	Hitachi High-Tech (Shanghai) Co., Ltd.	G24
黄山申格电子科技股份有限公司	Huangshan Shenge Electronic Technology Co., Ltd.	B21
爱微(江苏)电力电子有限公司	iA (Jiangsu) Power Electronics Co., Ltd	D19
	Impact Innovations	A25
锢泰公司	Indium Corporation	F42
英飞凌科技	Infineon Technologies AG	D01
同济大学铁道与城市轨道交通研究院	Institute of Rail Transit, Tongji University	D78
谏早电子亚洲销售有限公司	Isahaya Electronics Sales Asia Ltd.	F21
上海三下电子科技有限公司	Sansonic Electronic S&T (Shanghai) Co., Ltd.	F21
岩崎通信机株式会社	IWATSU ELECTRIC CO., LTD.	H06
江苏捷捷微电子股份有限公司	Jiangsu JieJie Microelectronics Co., Ltd.	B10
江苏集芯先进材料有限公司	Jiangsu Jixin Advanced Materials Co., Ltd	G40
江苏中科科化新材料股份有限公司	Jiangsu Zhongke Kehua New Materials Co., Ltd.	A02
江西江南新材料科技股份有限公司	Jiangxi Jiangnan New Material Technology Co., Ltd.	H21
嘉兴嘉一电源科技有限公司	Jiaxing Jiayi Power Supply Technology Co., Ltd.	H07
暨革半导体(东莞)有限公司	Jig Semiconductor (DongGuan) Co., Ltd	G19
晶佰源半导体(山东)有限公司	Jingbaiyuan Semiconductor (Shandong) Co., Ltd	G10
比利时荷语鲁汶大学电力电子研究团队	Katholieke Universiteit Leuven	E77
科威技术股份有限公司	KEWELL TECHNOLOGY CO., LTD.	C14
是德科技(中国)有限公司	Keysight Technology Inc.	D70
	Knowles Precision Devices	F28
株式会社弘辉	KOKI COMPANY LIMITED	C56
	Korea Instrument Co., Ltd	G63
	KOSTECSYS	F54
莱姆电子(中国)有限公司	LEM Electronics (China) Co., Ltd.	C16
龙腾半导体股份有限公司	Lonten Semiconductor Co.,Ltd.	C62
鲁欧智造(山东)数字科技有限公司	LUOLOGY (Shandong) Digital Technology Co., Ltd.	G64
麦德美爱法	MacDermid Alpha	F14
江苏宏微科技股份有限公司	MACMIVC SCIENCE & TECHNOLOGY CO., LTD.	E32
中瑞宏芯半导体有限公司	Macrocore Semiconductor Ltd.	F30

参展商	Exhibitor	展位号 Booth No.
曼特 (广州) 磁性器件有限公司	Magnetec (Guangzhou) Magnetic Device Co., Ltd.	E56-A
江苏芯长征微电子集团有限公司	Marching-Power Technology Group Co., Ltd	B01
玛塔化研科技 (苏州) 有限公司	Mata&Kaken Tech(Suzhou)Co., Ltd.	G62
美蓓亚功率半导体株式会社	Minebea Power Semiconductor Device Inc.	F06
三菱电机机电 (上海) 有限公司	Mitsubishi Electric & Electronics (SHANGHAI) CO., LTD.	E01
三井金属矿业株式会社	Mitsui Mining & Smelting Co., Ltd.	H16
昂氏 (上海) 电子贸易有限公司	Mouser Electronics	F04
深圳市美浦森半导体有限公司	MSEMITTEK Co.,Ltd	C17
南京南瑞半导体有限公司	NANJING NARI SEMICONDUCTOR CO., LTD.	C01
南京芯干线科技有限公司	NanJing X-IPM Technology Co.,Ltd	B18
安世半导体	Nexperia	E18
尼得科精密检测科技株式会社	NIDEC ADVANCE TECHNOLOGY CORPORATION	B22
宁波合盛新材料有限公司	Ningbo Hesheng New Materials Co., Ltd.	G30
宁波建安半导体有限公司	Ningbo JSAB Semiconductor Company Limited	C24
宁波尚进自动化科技有限公司	Ningbo ShangJin Automation Technology Co., Ltd.	C42
诺信测试与检验	Nordson TEST & INSPECTION	B46
安森美	onsemi	D32
瑞爱实用控制科技 (苏州) 有限公司	PETERCEM SENSORS	C58
	Power Integrations	E06
山东阅芯电子科技有限公司	Prime-Rel Electronic Technology Co., Ltd	C26
江苏快芯装备科技有限公司	QUICK Semiconductor Technology Co.,Ltd.	H10
乐温半导体	RAON SEMICONDUCTOR Co.,Ltd	F34
	SK powertech	F34
丰鹏电子 (珠海) 有限公司	Raytrons Limited	C61
罗德与施瓦茨 (中国) 科技有限公司	ROHDE & SCHWARZ	G23
罗姆半导体 (上海) 有限公司	ROHM Semiconductor (Shanghai) Co., Ltd.	D14
沙特基础工业公司	SABIC	H03
上海骄成超声波技术股份有限公司	SBT Ultrasonic Technology Co., Ltd.	B26
顺德工业股份有限公司	SDI CORPORATION	G38
世强先进 (深圳) 科技股份有限公司	Sekorm Advanced Technology (Shenzhen) Co., Ltd.	H04
赛米控丹佛斯电子 (珠海) 有限公司	Semikron Danfoss Electronics (Zhuhai) Co., Ltd.	E16
陕西开尔文测控技术有限公司	Shaanxi KEW- Test Measurement and Control Technology Co.,Ltd.	F12
山东佳脉气体工程有限公司	Shandong Gamma Gas Engineering Co. Ltd.	D56
上海鹰峰电子科技股份有限公司	Shanghai Eagtop Electronic Technology Co., Ltd.	H01
上海和伍精密仪器股份有限公司	Shanghai Hiwave Precision Instrument Co., Ltd.	F64
上海华虹肇芯电子科技有限公司	Shanghai HuaHong ZealCore Electronics Technology Co., Ltd	E36
上海岩谷有限公司	SHANGHAI IWATANI CO., LTD.	F48

参展商	Exhibitor	展位号 Booth No.
上海中浦电磁科技有限公司	Shanghai SEC Technology Co.,Ltd	B31
上海世禹精密设备股份有限公司	Shanghai Techsense Co.,Ltd	D50
上海永铭电子股份有限公司	Shanghai Yongming Electronics Co., Ltd.	F76
深圳市聚峰锡制品有限公司	SHENZHEN JUFENG SOLDER CO LTD	G43
深圳市先进连接科技有限公司	Shenzhen Advanced Joining Technology Co., Ltd.	E48
珠海硅酷科技有限公司	Silicool Innovation Technologies(Zhuhai)Co.,Ltd.	E48
深圳市艾明博电子科技有限公司	Shenzhen Ai Ming Bo Electronics Technology Co., Ltd	G36
深圳爱仕特科技有限公司	Shenzhen AST Technology Company	F58
深圳市博敏电子有限公司	Shenzhen Bomin Electronics Co., LTD.	F66
深圳市博士达焊锡制品有限公司	SHENZHEN BOSHIDA SOLDERING TIN INDUSTRIAL CO.,LTD	D52
深圳市迪福伦斯科技有限公司	ShenZhen Deffense Technology Co.,LTD	G53
深圳市铭奋电子科技有限公司	Shenzhen Fairfield Electronic Technology Co.,Ltd.	H28
深圳市创兴恒技术有限公司	Shenzhen Forenext Technology Co.,Ltd	G60
深圳市华科智源科技有限公司	Shenzhen HUSTEC Technology Co Ltd	F36
深圳市金鹏跃科技有限公司	Shenzhen Jinpengyue Technology Co., Ltd.	G61
深圳力钛技术有限公司	Shenzhen Letak Technology Co., Ltd	C40
深圳麦科信科技有限公司	Shenzhen Micsig Technology Co., Ltd.	F68
深圳市锐博自动化设备有限公司	Shenzhen REB Automation Co.,Ltd.	E46
深圳市瑞芯辉科技有限公司	SHENZHEN RUI XIN HUI TECHNOLOGY CO.,LTD	H25
深圳市顺昱自动化设备有限公司	SHENZHEN SHUNYU AUTOMATIZATION EQUIPMENT CO.,LT	A14
深圳市欣音达科技有限公司	SHENZHEN XETAR TECHNOLOGY CO.,LTD	G50
深圳芯源新材料有限公司	SHENZHEN XINYUAN NEW MATERIALS CO., LTD.	C30
深圳市愿力创科技有限公司	SHENZHEN YUANLICHUANG TECHNOLOGY CO.,LTD.	E19
深圳市禹龙通电子股份有限公司	Shenzhen Yulongtong Electronics Co., Ltd.	G34
深圳市智胜新电子技术有限公司	Shenzhen Zeasset Electronic Technology Co., Ltd.	B20
碳矽电子股份有限公司	SiCEV Electronics Co., Ltd.	H32
清纯半导体 (宁波) 有限公司	SiChain Semiconductor (Ningbo) Co., Ltd	C48
希科半导体科技 (苏州) 有限公司	Sico Semiconductor Technology (Suzhou) Co.,Ltd.	H26
芯力能 (上海) 技术咨询有限责任公司	Silicon Mobility (Shanghai) Technology Consulting Co., Ltd.	C54
安徽希磁科技股份有限公司	Sinomags Technologies Co.,Ltd.	B24
广州汉源微电子封装材料有限公司	Solderwell Microelectronic Packaging Materials Co., Ltd.	F26
赛晶科技集团有限公司	Sun.King Technology Group Limited	D16
进工贸易 (上海) 有限公司	SUSUMU INTERNATIONAL TRADING (SHANGHAI) CO.,LTD	C38
苏州宝士曼半导体设备有限公司	Suzhou Boschman Semiconductor Equipment Co. Ltd.,	G06
南通威斯派尔半导体技术有限公司	Nantong Winspower Semiconductor Technology Co.,Ltd	G06
苏州欧菲特电子股份有限公司	Suzhou GeneralTest Electronics Corp.	H19
苏州广林达电子科技有限公司	SUZHOU GRANDA CO.,LTD	C50

参展商	Exhibitor	展位号 Booth No.
苏州圭石科技有限公司	Suzhou S-tiger Technology Co., Ltd.	B23
苏州源特半导体科技有限公司	Suzhou Very Power Semiconductor Co., Ltd.	C52
苏州华太电子技术股份有限公司	Suzhou Watech Electronics Co., Ltd.	F40
苏州悉智科技有限公司	Suzhou XiZ-Tech Co., Ltd.	G12
北京天科合达半导体股份有限公司	TanKeBlue Semiconductor Co., Ltd.	G57
泰克科技(中国)有限公司	Tektronix (China) Co., Ltd.	G25
特励达力科	Teledyne Lecroy	B15
东芝电子元件(上海)有限公司	Toshiba Devices & Storage (Shanghai) Co., Ltd.	G01
清华大学电气交通团队	Tsinghua University PEMC	D80
忱芯科技(上海)有限公司	UniSiC Technology (Shanghai) Co., Ltd.	B14
友顺科技股份有限公司	UNISONIC TECHNOLOGIES CO.,LTD.	C46
芯联集成电路制造股份有限公司	United Nova Technology Co.,Ltd.	D36
瓦克华磁性材料有限公司	VAC	C18
大众汽车(中国)科技有限公司天津分公司	Volkswagen China Technology Company Tianjin Branch	F16
瑞能半导体科技股份有限公司	WeEn Semiconductors CO., Ltd.	F18
潍坊新兴电源散热器有限公司	Weifang xinxing power supply heatsink Co.,Ltd	F82
创意电子有限公司	Weltronics Component Limited	G20
稳利达电源技术有限公司	Wenlida Power Supply Technology Co., Ltd.	A04
	WISE INTEGRATION	C44
武汉新瑞科电子科技有限公司	Wuhan New Rock Electronic Technology Co Ltd	F70
武汉普赛斯仪表有限公司	Wuhan Precise Instrument Co., Ltd.	H20
武汉中科创新技术股份有限公司	Wuhan Zhongke Innovation Technology Co., Ltd	G39
伍尔特电子控制系统(沈阳)有限公司	Wurth Elektronik ICS (Shenyang) Co., Ltd.	F24
无锡宸瑞新能源科技有限公司	Wuxi CRE New Energy Technology Co.,Ltd.	F20
无锡市豫达换热器有限公司	Wuxi Yuda Heat-exchanger Co.,Ltd	C36
西安明科微电子材料有限公司	Xi'AN MIQAM MICROELECTRONICS MATERIALS CO.,LTD	A13
厦门芯达茂微电子有限公司	Xiamen Xinergy Microelectronics Co., Ltd.	H31
西安智盈电气科技有限公司	Xi'an Zhiying Electric Technology Co., LTD	G26
鑫业诚智能装备(无锡)有限公司	XYC-TEK INTELLIGENT EQUIPMENT (WUXI) CO., LTD.	B16
扬州扬杰电子科技股份有限公司	Yangzhou Yangjie Electronic Technology Co., Ltd	D24
烟台台芯电子科技有限公司	Yantai Taixin Electronic Technology Co., Ltd	D20
洁创	ZESTRON	C20
兆东精密工业有限公司	Zhao Dong Precision Industry Co., Ltd.	A17
浙江泛源鑫才科技有限公司	Zhejiang Fanyuan Xincai Technology Co., Ltd.	A08
浙江艾姆勒车电科技有限公司	Zhejiang Amulair Thermal Technology Co., Ltd	C60
浙江翠展微电子有限公司	Zhejiang Cuizhan Micro electronics Co., Ltd	A26
浙江杭可仪器有限公司	Zhejiang Hangke instrument Co., Ltd	F60

参展商	Exhibitor	展位号 Booth No.
浙江精瓷半导体有限责任公司	Zhejiang Jingci Semiconductor Co., Ltd	G27
浙江德汇电子陶瓷有限公司	Zhejiang TC Ceramic Electronic Co., Ltd	C22
浙江正天新材料科技有限公司	Zhejiang Zhengtian New Materials Technology Co., Ltd.	H29
珠海富士智能股份有限公司	ZHUHAI FUJI CHINON CO., LTD.	A06

* 按字母顺序排列 By Alphabetical Order

媒体	Media	展位号 Booth No.
Bodo's 功率系统	Bodo's Power Systems China	H36
《变频器世界》	The World of Inverters	H37
碳化硅芯观察	InSemi Research	H34
集邦咨询顾问 (深圳) 有限公司	Trendforce	H33

展位号 / Booth No: G21
艾普斯电源 (苏州) 有限公司
AC Power Corp. (Preen)



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产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 医疗电子 Medical Electronics, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

艾普斯电源 Preen 成立于 1989 年, 在电力电子领域致力于为全球提供卓越的交流电源和直流电源解决方案。我们拥有广泛的产品线, 包括可编程交流电源、可编程直流电源、测试系统、航空军用电源以及保护电源等, 产品在多个行业中被广泛应用: 电动车、充电桩、再生能源、家用电器、消费电子、军工 / 航空、研发和 EMC 测试, 我们的解决方案全面涵盖。我们提供符合全球法规的模拟测试, 以验证产品的能力和可靠性, 确保我们的客户只提供最优质的产品。

Preen is a leading provider of programmable power supplies and has been developing products based on the core technology of power conversion. We have one of the broadest product lines, including Programmable AC Power Source, Programmable DC Power Supplies, Automatic Test System, Renewable Energy Simulators, Power Supplies for Laboratory and Test & Measurement, Line Conditioners.

We take a significant part in a variety of markets, including Electric Vehicle, Electric Vehicle Supply Equipment, Renewable Energy, Home Appliance, and Consumer Electronics, Military & Aerospace, General R&D and EMC compliance testing. We provide diversified test solutions that comply with worldwide regulations to verify product capability and reliability, ensuring that our customers only deliver top-quality products.

产品范围 / Topics:

测试和测量 Test & Measurement

产品介绍 / Products Description:

AFV-P 系列可编程交流电源具直流输出及精准的量测功能, 输出功率含 600VA、1250VA、2500VA 与 5000VA, 失真 (THD) 最低 <0.3%, 供纯净电源给待测物。输出电压 0~310VAC 可调, 输出频率 A: 5~2000Hz, B: 15~1000Hz 适合开关电源如 ATX 3.0、LED 照明、电机马达、再生能源等应用。

ADG-L 系列可编程直流电源采主动式功率因子改善电路和 PWM 脉冲宽度调变直接耦合输出技术设计, 拥有瞬时反应快、涟波低、稳压率佳、输出范围广等特点。主要应用光伏、电动汽车、锂电池及医疗等相关电源测试。



The AFV-P series programmable AC power sources feature DC output and precise measurement capabilities. With 600VA, 1250VA, 2500VA, and 5000VA output power options, the series provides pure power to the DUT with a total harmonic distortion of <0.3%. The output voltage is adjustable from 0 to 310VAC, and the output frequency ranges A: 52000Hz, and B: 151000Hz, making it suitable for applications such as ATX 3.0 power supplies, LED lighting, electric motors, and renewable energy.

The ADG-L series programmable DC power supply has 19 models and three different output power, 5kW, 10 kW, and 15 kW. Utilizing PWM technology, ADG-L delivers stable output and precise measurement. The series features fast transient response, low ripple, excellent voltage regulation, and a wide output range. ADG-L series are primarily used for power testing applications in solar energy, electric vehicles, lithium batteries, medical devices, etc.

展位号 / Booth No: G18

朋程科技股份有限公司

Actron Technology Corporation



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电话 / Tel: +886-3-3115555

邮箱 / E-mail: kevin_lee@actron.com.tw

网址 / Web: <https://www.actron.com.tw/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 光伏 Solar Energy, 电力供应 Power Supply, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

朋程科技自 1998 年成立, 在车用发电机二极管市场占有龙头地位。随着全球汽车产业朝向电动化发展, 朋程亦凭藉坚实的研发团队与开发技术能力积极投入开发新的元件, 包括: 碳化硅 (SiC)、绝缘栅双极晶体管 (IGBT) 功率模组; 碳化硅肖特基二极管 (SiC SBD)、碳化硅 MOS 管、IGBT 离散元件; 以及功率半导体晶圆等。朋程科技致力于满足多个领域的需求, 如太阳能、储能和伺服器, 以推升能源效率和可持续性。

Founded in 1998, Actron Technology Corporation holds world's largest market share in automotive alternator diodes, exhibiting a range of high voltage power device for future energy transition. The lineup includes Silicon Carbide (SiC) power modules, IGBT power modules, SiC MOSFET Discrete, SiC Diode Discrete, Si IGBT Discrete, and Silicon & Silicon Carbide wafers. As the world shifts toward energy efficiency and sustainability, Actron is committed to meeting diverse sector demands, especially in the growing market for SiC and IGBT power modules used in electric vehicles, solar energy, energy storage system, and servers.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage

产品介绍 / Products Description:

AEP 系列

碳化硅 (SiC MOSFET) 1200V/400A 功率模块采用 6 合 1 整合式设计, 并搭载最新化合物半导体 SiC MOSFET 功率芯片, 提升各型 800V 电池系统之电动车 (xEVs) 与电动载具逆变器整体效能。输出电流达 400A, 对应至 200~250kW 马达输出, 为次世代电动载具应用之功率模块首选。



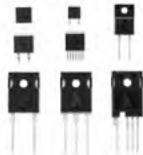
ADP 系列

碳化硅 (SiC MOSFET) 1200V/450A 以及 1200V/600A 功率模块采用 2 合 1 整合式设计, 适用于各型 800V 电池系统之电动巴士 (E-BUS) 逆变器, 或新能源重卡逆变器, 或快速高功率直流充电桩 (DC Fast Charger for xEV), 为电动化载具与储能应用之功率模块首选。



Discrete 系列

朋程科技推出一系列新的碳化硅 SiC MOSFET 与 SiC Diode 装置, 适用于对于功率密度、能效和可靠性要求极高的相关应用。设计人员可以用新的 SiC 装置取代现有的硅开关技术, 将在电动汽车 (EV) 车载充电器 (OBC)、太阳能逆变器、服务器电源 (PSU)、电信和不间断电源 (UPS) 等不同应用中实现显著的更佳性能。以下列出朋程科技 SiC MOS/SiC Diode 相关产品, 最新信息可以随时注意官网信息: <https://www.actron.com.tw/>



AEP Series

The SiC MOSFET 1200V/400A power module features a 6-in-1 integrated design and is equipped with the latest SiC MOSFET power chips, enhancing the overall performance of inverters for various types of 800V battery systems in electric vehicles (xEVs) and electric mobility. With an output current up to 400A, corresponding to a 200~250kW motor output, it is the optimal power module solution for next-generation electric vehicle.

ADP Series

The SiC MOSFET 1200V/450A and 1200V/600A power modules feature a 2-in-1 integrated design, suitable for inverters of various 800V battery systems in electric buses (E-Bus), electric truck (E-Truck), or high-power DC fast chargers for electric vehicles (xEV). It is the optimal power module for electric vehicles and energy storage applications.

Discrete Series

Actron Technology introduces a new series of silicon carbide (SiC) MOSFET and SiC Diode devices, designed for applications demanding high power density, energy efficiency, and reliability. Designers can replace existing Silicon switching technologies with these new SiC discrete devices, achieving significantly improved performance in various applications, such as EV car onboard chargers (OBC), solar inverters, server power supply units (PSU), telecommunications, and uninterruptible power supply systems (UPS). Below is a list of Actron Technology's SiC MOS/SiC Diode products. For the latest information, please visit our official website: <https://www.actron.com.tw/>

展位号 / Booth No: D28

上海新微半导体有限公司

Advanced Micro Semiconductors Co., Ltd.



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2020Feidu Rd., Shanghai 201306, China

邮箱 / E-mail: zy.zhou@advanced-microsemi.com

网址 / Web: <https://www.advanced-microsemi.com/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 计算电子 Computing Electronics, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

上海新微半导体有限公司（简称“新微半导体”），成立于 2020 年 1 月，位于中国（上海）自由贸易试验区临港新片区。作为先进的化合物半导体晶圆代工企业，新微半导体拥有一流的工艺制程和特色解决方案，专注于为各领域的客户提供多元化的晶圆代工及配套服务。产品可广泛应用于通信、新能源、消费电子、汽车、工业和医疗等终端应用领域。

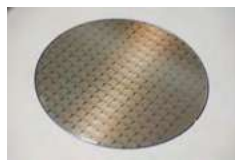
Founded in January 2020 and located in Lingang of the Shanghai Free Trade Zone, Advanced Micro Semiconductors Co., Ltd. ("AMSFAB"), features a gross floor area of 60,000 m² and clean room area of 8,000 m² in phase one campus. As an advanced compound semiconductor foundry, AMSFAB has first-class processes and distinctive solutions, and focuses on providing diversified foundry and supporting services to its customers in the fields of optoelectronics ("OE") and power electronics ("Power"), which supports products widely used in various applications including communication, automotive, new energy, consumer electronics, industries, etc.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

高压 650V 硅基氮化镓功率器件工艺平台、中压 150V 硅基氮化镓功率器件工艺平台、低压 40V 硅基氮化镓功率器件工艺平台



High-voltage 650V GaN-on-Si Power Device Platform / Medium-voltage 150V GaN-on-Si Power Device Platform / Low-voltage 40V GaN-on-Si Power Device Platform

展位号 / Booth No: E28

瑶芯微电子科技有限公司 (上海) 有限公司

Alkaid-Semi Technologies (Shanghai) Co., Ltd



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C3, Phase 1, Zhangjiang Guochuang Center, No. 999 Dangui Road, Pudong New Area, Shanghai

邮箱 / E-mail: stone_fu@alkaidsemi.com

网址 / Web: http://www.alkaidsemi.com/

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

瑶芯微电子科技有限公司 (上海) 有限公司主要致力于第三代半导体及全品类功率器件、智能传感器和信号链 IC 的设计、研发和销售。主营产品为功率器件 (SiC MOS 和 SiC 二极管, 中低压 Trench MOS 以及 SGT MOS, 高压 SJ 超结 MOS, IGBT, FRD) 和 MEMS 传感器以及信号链 IC。主要应用领域为车载的功率器件应用及工业类 (比如车载 OBC, 主驱逆变, 热管理系统, 线控底盘及各类工业 / 车载电机和 BMS 应用) 手机快充, 工业开关电源, 光伏储能逆变器) 以及消费类电子市场、医疗与工控领域的 MEMS 传感器产品和信号链 IC。具备自有知识产权体系, 高效的研发体系, 成熟的质量管控体系和稳固的供应链体系四大体系保障, 可实现高可靠性和高性价比的国产替代。

Yaoxin Microelectronics Technology (Shanghai) Co., Ltd. is an innovator and breaker in the fields of homemade power devices, intelligent sensors and signal chain IC.

Self-developed devices include: SiC MOS and SiC diode, medium and low voltage Trench MOS and SGT MOS, high voltage SJ super-junction MOS, IGBT, FRD, MEMS sensors and signal chain IC.

Our flexible and innovative business model as well as agile and rapid response mechanism and support system can improve the overall performance and reliability of your systems, shorten the time of product launch, and have the price competitiveness and continuous cost reduction, so as to help you progress steadily in the fierce market competition.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1200V G4.5

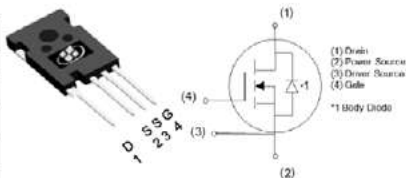
在新能源领域不断发展的今天, AKS 凭借其先进的技术, 已量产的 1200V G4.5 技术平台 AK1CK2MXXXWAM 系列 SiC MOSFET 为行业带来了突破性的变革。

该系列拥有 14 - 80mΩ 多个规格, 在 Ron 与动态性能上均实现了相当大的提升。以 1200V G4.5 40mΩ (AK1CK2M040WAM) 为例, 其主要应用于 OBC (车载充电器), 而此应用对寄生电容 CGD 的要求极高; 该产品此参数低至 6.5pF, 使得在开关损耗上也有较大的提升。

这一卓越的性能优势, 不仅提高了能源转换效率, 还降低了系统的功耗, 为用户带来了更高效、更可靠的使用体验。无论是在电动汽车领域, 还是其他新能源应用中, AKS 1200V G4.5 技术平台都展现出了强大的竞争力。选择 AKS, 就是选择领先的技术和卓越的品质。我们将继续致力于创新和优化, 为新能源行业的发展贡献力量。

Key Performance Parameters:

Parameter	Value	Unit
V_{DS}	1200	V
$R_{DS(on) \text{ TYP @ } V_{GS} = 15 \text{ V}}$	40	mΩ
$R_{DS(on) \text{ TYP @ } V_{GS} = 18 \text{ V}}$	35	mΩ
I_D	62	A
P_D	333	W



G2.5 SJ

瑶芯微电子科技（上海）有限公司基于超结（SJ）多层外延技术，推出全新 G2.5 平台 SJ MOSFET，包含两大电压等级（600V&650V），相较于上一代 SJ MOSFET，该系列不仅显著降低了比导通电阻（ $R_{DS(ON)} \cdot \text{Area}$ ），还针对高频率高功率应用进行优化，满足设计人员对更高功率密度的需求的同时，帮助提高系统效率。其中采用 TOLL 封装的 600V 35.5m Ω 型号已实现量产，凭借其极低的导通损耗，优秀的开关性能以及抗干扰能力，在中高档开关电源（SMPS）例如服务器电源、通信电源等取得优异的表现。

Key Performance Parameters:

Parameter	Value	Unit
V_{DS}	600	V
$R_{DS(ON), max} @ V_{GS} = 10 \text{ V}$	35.5	m Ω
I_D	63	A

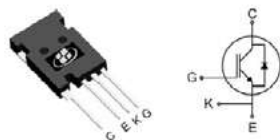


G3 平台 H 系列高速 IGBT 单管

瑶芯微电子科技（上海）有限公司推出全新 G3 平台 H 系列高速 IGBT 单管，包含两大电压等级（650V&1200V），该系列单管针对光储、UPS、EV charger、焊机应用进行了专门的优化，并配备了全电流快恢复二极管。凭借极低的开关损耗和导通损耗，H 系列单管将成为光伏和储能应用的新星。其中，1200V H 系列电流规格覆盖 40A-140A，采用 TO-247PLUS-4L 封装的 140A 型号已实现规模化量产。相较于瑶芯微上一代 1200V G2 平台单管，G3 平台 H 系列高速 IGBT 单管具有更好的表现，多颗大电流单管并联可以轻松实现 100kW 及以上逆变器。

Key Performance Parameters:

Parameter	Value	Unit
V_{CE}	1200	V
I_C	140	A
$V_{CE(SAT)}$	1.7	V



650V G5 25/45m Ω

1200V G4.5

G2.5 平台 SJ MOSFET

1200V IGBT

展位号 / Booth No: C06

安徽瑞迪微电子有限公司

Anhui RedPower Microelectronics Co.,Ltd.

REDPOWER

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电话 / Tel: +86-0553-5881852

邮箱 / E-mail: qiong.zhao@redpowersemi.com

网址 / Web: http://www.redpowersemi.com/

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 电力供应 Power Supply, 医疗电子 Medical Electronics, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

安徽瑞迪微电子有限公司成立于2019年6月,坐落于安徽省芜湖市,拥有集IGBT、FRD、SiC芯片及功率模块设计、制造、应用方案开发与技术服务于一体的高科技企业。项目规划投资20亿元,工厂一期年产能100万只功率模块,二期规划年产能500万只功率模块。公司聚焦于电动汽车、光伏、储能、风电、充电桩等新能源应用领域,同时兼顾电能质量及工业控制等领域对产品的需求。高质量是瑞迪秉持的理念,为客户提供“零缺陷”的产品和周到的服务是瑞迪始终不渝的奋斗目标。瑞迪坚持自主创新,为客户提供全方位解决方案,致力于成长为卓越的功率半导体制造商。

Anhui Red Power Microelectronics Co. was established in June 2019 and is based in Wuhu City, Anhui Province. It is a high-tech enterprise with a collection of IGBT, FRD, SiC chips and power modules design, production, application program development and technical services. The planned investment of the project is 2 billion RMB. The first phase of the factory has an annual capacity of 1 million power modules, and the second phase has an annual capacity of 5 million power modules.

The company focuses on new energy applications such as electric vehicles, photovoltaic, energy storage, wind power, charging piles, etc., and also takes into account the demand for products in the fields of power quality and industrial control. High quality is the philosophy of RedPower, Its unwavering purpose is to provide consumers with "zero-defect" products and considerate service. Attention to quality is an essential part of RedPower's corporate culture. RedPower insists on independent innovation, provides customers with comprehensive solutions, and is committed to growing into an outstanding power semiconductor manufacturer.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

A6系列 - 产品技术亮点

1. 低饱和压降
2. 低开关损耗
3. 高可靠性
4. 高RBSOA能力



A6-Innovation Highlights

1. Low saturation pressure drop
2. Low switching losses
3. High RBSOA capability
4. High reliability

A5系列 - 产品技术亮点

1. 低饱和压降
2. 低开关损耗
3. 高可靠性
4. 高RBSOA能力
5. 紧凑型设计



A5-Innovation Highlights

1. Low saturation pressure drop
2. Low switching losses
3. High RBSOA capability
4. High reliability
5. Compact design with a smaller size than HPD.

A4系列 - 产品技术亮点

1. 低饱和压降
2. 低开关损耗
3. 高可靠性
4. 高RBSOA能力



A4-Innovation Highlights

1. Low saturation pressure drop
2. Low switching losses
3. High RBSOA capability
4. High reliability

展位号 / Booth No: F46

安徽陶芯科半导体新材料有限公司

Anhui Taoxinke Semiconductor New Materials Co., Ltd



地址 / Add: 安徽省黄山市祁门县祁山镇祁门经济开发区电子产业园高新技术科创数据中心 4# 楼
Building 4 #, High tech Innovation Data Center, Electronic Industrial Park, Qimen Economic
Development Zone, Qishan Town, Qimen County, Mount Huangshan City, Anhui Province
邮箱 / E-mail: zcqm81@126.com
网址 / Web: <http://www.ahtxk.com/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

安徽陶芯科半导体新材料有限公司位于安徽省黄山市祁门县经济开发区, 企业注册资金 2000 万元, 拥有厂房 10000 余平米, 专注从事功率半导体用高性能覆铜陶瓷基板 (AMB/DBC) 的设计、研发、生产和销售。

Anhui Taoxinke Semiconductor New Material Co., Ltd. is located in Qimen County Economic Development Zone, Mount Huangshan City, Anhui Province, with a registered capital of 20 million yuan and more than 10000 square meters of factory buildings, focusing on the design, research and development, production and sales of high-performance copper clad ceramic substrate (AMB/DBC) for power semiconductors.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 传感器 Sensors, 智能运动 Intelligent Motion, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 测试和测量 Test & Measurement, 开发软件 Development Software, 信息与服务 Information & Services

产品介绍 / Products Description:

直接覆铜基板 (Direct Bonded Copper, 简称 DBC), 将高绝缘性的氧化铝 (Al_2O_3)、氧化锆 (ZTA) 陶瓷基片的单面或双面覆上铜金属后, 经由 1065~1085C 温度烧结。铜因高温氧化、扩散与陶瓷片质产生共晶熔体, 使铜与陶瓷基板黏合, 形成陶瓷复合金属基板。通过黄光工艺转移图形, 以真空蚀刻方式制作线路, 自动印刷设备制作阻焊, 最后进行表面处理和激光成型。



Direct Bonded Copper (DBC) substrates are made by coating high insulation alumina (Al_2O_3) and zirconia (ZTA) ceramic substrates with copper metal on one or both sides, and then sintering them at temperatures ranging from 1065 to 1085C. Copper undergoes eutectic melting due to high-temperature oxidation, diffusion, and ceramic substrate, causing it to adhere to the ceramic substrate, forming a ceramic composite metal substrate. The pattern is transferred through yellow light technology, and vacuum etching is used to make circuits. Automatic printing equipment is used to make solder mask, and finally surface treatment and laser forming are carried out.

展位号 / Booth No: C19

安徽长飞先进半导体有限公司

Anhui YOFC Advanced Semiconductor Co., Ltd.



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No.82, Limin East Road, Wuhu City, Anhui Province, China

邮箱 / E-mail: zhangmingyan@yascsemi.com

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产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

安徽长飞先进半导体有限公司 (长飞先进) 是一家专注于碳化硅 (SiC) 功率半导体产品研发及制造的 IDM 企业, 具备从外延生长、器件设计、晶圆制造到模块封装的全产业链能力。公司拥有国内一流的 6 英寸产线设备和先进的配套系统, 可提供 650V-3300V SiC SBD、SiC MOSFET 相关产品, 广泛覆盖新能源汽车、光伏、储能、充电桩、电力电网等领域。

Anhui YOFC Advanced Semiconductor Co., Ltd. (YASC) is an IDM company specializing in the development and manufacturing of silicon carbide (SiC) power semiconductor products. It has the full manufacturing capabilities of epitaxial processing, product designing, wafer fabricating, packaging and testing. YASC owns the best class 6" production line equipment and advanced supporting system. It offers 650V-3300V SiC SBD, SiC MOSFET products and related product families, covering wide applications for new energy vehicles, photovoltaics, energy storage, charging piles, power grid and other fields.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1. SiC 分立器件 SiC Discrete

SiC SBD

长飞先进 650V~1200V SiC SBD, 采用国际先进的结势垒 (JBS) 和混合 PIN (MPS) 肖特基结构, 电流规格分布可从 4A 到 60A, 满足客户多样化需求, 本系列产品具有零反向恢复电流、耐高温、耐高压等二极管先进特性。

产品特点:

Zero Reverse Recovery 零反向恢复电流

Positive Temperature Coefficient on VF 二极管压降正温度系数

Temperature-Independent Switching Behavior 开关特性不受温度变化影响

Extremely Fast Switching 高开关速度



SiC 晶圆

SiC MOSFET

长飞先进 650V~2000V SiC MOSFET, 符合行业 AECQ-101 车规级可靠性考核标准, Rdson 分布从 12mohm~680mohm 不等, 具有低导通电阻、低开关损耗的特点, 与市面常规 SiC MOSFET 产品相比, 长飞先进器件导通电阻随温度的变化更小, 在高温状态下具有更优秀的工作表现, 适用于汽车、光伏、储能、充电等多种不同应用领域。

产品特点:

Very low switching losses 低开关损耗

Fast Reverse Recovery 二极管快速反向恢复

Avalanche Ruggedness 优异的抗雪崩能力

Low On-Resistance 低导通电阻



SiC 分立器件

2. SiC 功率模块 SiC Module

长飞先进碳化硅功率模块, 包括 HPD、DCM、EconoDual、Easy2B、62mm 等多种模块封装形式, 产品采用银烧结、DTS 键合、超声端子焊接等先进封装技术, 致力于构建低杂感、高性能、高可靠性的模块产品方案, 长飞先进模块产品通过车规级及工业级考核标准, 可满足市场大部分汽车及工业应用需求; 此外, 长飞先进也专注行业前沿技术开发, 更多先进的模块封装能力正在同步建设中。



SiC 功率模块

展位号 / Booth No: A16

安阳佳友非晶科技有限公司

Anyang Kayo Amorphous Technology Co.Ltd

佳友非晶
JUSTYOU

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Building 1, Torch Entrepreneurship Park, West Section of Changjiang Avenue, High tech Zone,
Anyang City, Henan Province, China

电话 / Tel: 15896869095

邮箱 / E-mail: huganghua@kayo-tech.cn

网址 / Web: http://www.just-you.com.cn/

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

安阳佳友非晶科技有限公司成立于2011年, 是一家专注于高性能非晶新材料及制品研发、生产、销售和服務的高新技术企业。公司主要产品为非晶/纳米晶磁环, 为客户提供磁性元件解决方案。公司已通过 IATF16949 及 ISO9001 体系认证。

"提供质量可靠, 价格有竞争力的产品, 与客户共同发展"是安阳佳友非晶的企业理念, 佳友产品路线和研发方向契合当前新能源行业发展需求。

Established in 2011, Anyang kayo Amorphous Technology Co., Ltd. is a high-tech enterprise that focuses on the research and development, production, sales, and service of high-performance amorphous new materials and products. The company's main products are amorphous/nanocrystalline magnetic rings, providing customers with magnetic component solutions. The company has passed the IATF16949 and ISO9001 system certifications.

The corporate philosophy of Anyang Jiayou Amorphous is to provide products with reliable quality and competitive prices, and to develop together with customers. Jiayou's product line and research and development direction are in line with the current development needs of the new energy industry.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 传感器 Sensors, 配置和子系统 Assemblies and Subsystems, 伺服技术 / 执行器 Electrical Drives, 智能运动 Intelligent Motion, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 测试和测量 Test & Measurement

产品介绍 / Products Description:

公司主要产品有高压电流互感器磁芯、共模电感磁芯、精密电流互感器磁芯、中高频变压器磁芯、网络变压器环形磁芯、漏电保护开关磁芯、纳米晶、钴基非晶磁珠等。其中磁珠生产工艺是我公司自主研发的自动化工艺, 很好地为客户解决了产能不足、质量不稳定的问题。共模电感磁芯、非晶磁芯等是公司生产的优势品种, 具有产能大、质量稳定、性价比高的特点。公司外贸业务遍布美国、英国、韩国、印度、巴西等一些国家。



The company's main products include high-voltage current transformer cores, common mode inductor cores, precision current transformer cores, medium and high frequency transformer cores, network transformer ring cores, leakage protection switch cores, nanocrystalline, cobalt based amorphous magnetic beads, etc. The magnetic bead production process is an automated process developed by our company, which effectively solves the problems of insufficient production capacity and unstable quality for customers. Common mode inductor cores, amorphous cores, and other products are the company's advantageous varieties, characterized by high production capacity, stable quality, and high cost-effectiveness. The company's foreign trade business covers some countries such as the United States, the United Kingdom, South Korea, India, and Brazil.

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展位号 / Booth No: H17
安普朗合金 (远东) 有限公司
APERAM ALLOYS (FAR EAST) CO., LTD.
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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

安普朗合金公司 (APERAM ALLOYS), 原名法国殷菲合金公司 (Imphy Alloys) 隶属于法国安普朗集团, 全球著名镍钴合金生产商, 至今已有一百多年的历史 and 合金生产经验, 在镍及钴合金研发和生产上处于全球领先地位, 产品品质享誉国际盛名。

基于安普朗合金强大的合金研发能力, 安普朗磁组件分公司创建于 1961 年 (前身为法国 Mécagis 公司) 隶属于法国安普朗集团 (Aperam), 欧洲著名的磁性铁芯制造商, 具有 50 多年的行业经验, 所生产优质产品应用于包括新能源汽车, 太阳能, 航空航天, 电气安全, 医疗等众多领域。

鉴于中国市场对高品质磁性铁芯的需求不断增长, 以及为了提供更快捷的交货服务, 安普朗合金已经在中国广东省佛山市建立了磁组件生产基地 (殷华特殊金属有限公司)。

主要产品有:

Nanophy 系列 高磁导率及中磁导率纳米晶磁芯 (30 000 < μ <500 000)

k μ 系列 磁导率纳米晶磁芯 (200 < μ <3000)

安普朗合金在全球 60 多个国家设有分公司及办事处, 如有相关产品需求及技术支持请联系我们, 谢谢!

APERAM ALLOYS, formerly known as French Imphy Alloys, is affiliated to APERAM Group, a world-famous nickel-cobalt alloy manufacturer with more than 100 years of history and alloy production experience. It is a global leader in the research and development and production of nickel and cobalt alloys, and its product quality is internationally renowned.

Based on the strong alloy research and development capabilities of Aperam Alloy, Aperam Magnetic Components Branch was founded in 1961 (formerly the French Mécagis company) and is affiliated to Aperam Group, a famous European magnetic core manufacturer with more than 50 years of industry experience, the high-quality products produced are used in many fields including new energy vehicles, solar energy, aerospace, electrical safety, medical and other fields.

In view of the growing demand for high-quality magnetic cores in the Chinese market, and in order to provide faster delivery services, Aperam Alloy has established a magnetic component production base (Imhua Special Metals Co., Ltd.) in Foshan City, Guangdong Province, China.

The main products are:

Nanophy series high permeability and medium permeability nanocrystalline cores (30 000 < μ <500 000)

k μ series low magnetic permeability nanocrystalline cores (200 < μ <3000)

Aperam Alloy has branches and offices in more than 60 countries around the world. If you have any related product needs and technical support, please contact us. Thank you!

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 传感器 Sensors, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System

产品介绍 / Products Description:

Nanophy 高磁导率及中磁导率纳米晶磁芯

Nanophy 以其特有的纳米晶铁芯结构及磁属性广泛应用于:

- 电气人体安全
- 滤波 - 谐波及尖峰抑制器
- 信号处理
- 感应器

ku 低磁导率纳米晶磁芯

- 线性表现优异
- 适用于大的温度波动

高磁导率, 低磁损 AFK 系列镍钴合金主要应用于:

- 电动执行器
- 无人机, 电动汽车马达



展位号 / Booth No: D72
飞镭半导体 (上海) 有限公司
APS Shanghai Ltd.



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网址 / Web: https://www.alpha-powers.com.cn/

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 光伏 Solar Energy, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

飞镭半导体 (Alpha Power Solutions, 简称 APS) 是中国领先的第三代半导体供应商, 专注于碳化硅功率半导体器件的研发、生产和销售, 已经在新能源汽车、直流充电桩、光伏及储能、智能家居等国内头部企业成功部署应用, 为他们提供优化的碳化硅产品, 为碳中和提供解决方案。飞镭致力于通过持续地创新和改进, 携手业界同仁共创绿色低碳美好未来。

Alpha Power Solutions (APS) is a leading third-generation semiconductor supplier in China, focusing on the research and development, production, and sales of silicon carbide power semiconductor devices. It has been successfully deployed and applied in leading domestic enterprises such as new energy vehicles, DC charging piles, photovoltaics and energy storage, and smart homes, providing them with optimized silicon carbide products and solutions for carbon neutrality. Alpha Power Solutions is committed to creating a green and low-carbon future together with colleagues in the industry through continuous innovation and improvement.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

最新一代 (Gen3B) 碳化硅 MOSFET

最新一代 Gen3B 碳化硅 MOSFET 系列, 该系列产品全面覆盖市场需求主流规格, 包含 750V 11/25/40/55mΩ, 以及 1200V 15/20/30/40/80mΩ 等。通过技术与工艺的双重革新, 实现了一致性更好、开关损耗更优、导通特性更为出色的产品, 更加适配高可靠性和高性能应用场景, 特别是在充电桩、光伏储能系统以及电动汽车的关键部件如车载充电器 (OBC)、DC/DC 转换器、电空调压缩机和主驱系统。



车规级 SiC MOSFET

车规级碳化硅 MOSFET 产品, 其中包括 1200V 35/70/160mΩ 和 650V 30/45/60mΩ 规格, 采用了 TO247-4 和 TO263-7 封装形式。这些产品具备高可靠性和高鲁棒性, 同时还展现出卓越的开关性能和导通特性。此外, 它们还具备出色的体二极管反向恢复特性, 能够显著降低车载充电 (OBC) 和 DC-DC 应用的系统成本。以上产品均通过了车规 AEC-Q101 可靠性验证, 并且通过了 960V 高压 H3TRB 加严测试。



The Newest (Gen3) Silicon Carbonate MOSFET

The Gen3B Silicon Carbonate MOSFET series, which fully covers the mainstream specifications of market demand, including 750V 11/25/40/55mΩ and 1200V 15/20/30/40mΩ. Through the dual innovation of technology and technique, products with better consistency, better switching loss, and better conduction characteristics have been achieved. These products are more suitable for high reliability and high-performance application scenarios, especially in charging piles, photovoltaic energy storage systems, and key components of electric vehicles such as on-board chargers (OBC), DC/DC converters and main drive systems, providing finished products that are more suitable for client use and can meet more intensive market demands.

Automotive Grade SiC MOSFET

Automotive grade silicon carbide MOSFET products, including 1200V 35/70/160mΩ and 650V 30/45/60mΩ specifications using TO247-4 and TO263-7 packaging. In addition, these products feature excellent body diode reverse recovery characteristics, significantly reducing the system cost for on-board charging (OBC) and DC-DC applications. All the products above have passed the automotive grade AEC-Q101 reliability verification and the rigorous 960V high-voltage H3TRB test.

展位号 / Booth No: D40

艾睿电子 (联合参展商: 恩智浦, 安森美, TE & Wolfspeed)

Arrow Electronics (Co-exhibitor: NXP, onsemi, TE & Wolfspeed)



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网址 / Web: <https://www.arrow.com/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 电机驱动控制 Motor Control Drives, 风能 Wind Energy, 汽车工程 Automotive

公司简介 / Company Profile:

艾睿电子为数以十万家领先的技术制造商和服务商驱动创新, 致力于发展可帮助提升商业价值及改善生活的科技解决方案。2023 年销售额为 330 亿美元。请浏览官网 [arrow.com](https://www.arrow.com/)。

Arrow Electronics guides innovation forward for thousands of leading technology manufacturers and service providers. With 2023 sales of \$33 billion, Arrow develops technology solutions that help improve business and daily life.

Our broad portfolio that spans the entire technology landscape helps customers design, distribute, and deploy forward-thinking products that make the benefits of technology accessible to as many people as possible. Learn more at [arrow.com](https://www.arrow.com/)

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 散热管理 Thermal Management, 传感器 Sensors, 配置和子系统 Assemblies and Subsystems, 伺服技术 / 执行器 Electrical Drives, 智能运动 Intelligent Motion, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 测试和测量 Test & Measurement, 开发软件 Development Software, 信息与服务 Information & Services

产品介绍 / Products Description:

Arrow 展示与 NXP、onsemi、TE 和 Wolfspeed 合作的最新智能工厂技术。走进我们的生产线场景, 探索驱动智能工厂的创新。

智能工厂需要智能机器人。移动机器人要实现最佳性能、运动平稳、运行可靠, 高效、精确的电机控制至关重要。随着机器人变得更加自主和复杂, 对能够处理复杂的电机控制以及其他任务的先进微控制器的需求很高。恩智浦的新型 i.MX 和 MCX 微控制器产品组合具有尖端 TSN 外设, 使开发人员能够优化移动机器人系统中的电机控制。通过 AI 热和图像处理能力智能识别物体。该解决方案附带演示生产线。

自主移动机器人 (AMR) 具有自动驾驶汽车等功能, 是由子系统组成的复杂设计, 允许机器人以最少的人机交互安全地移动、观察和操作。Onsemi 通过可靠的智能电源和传感解决方案最大限度地降低了这种复杂性, 为您的设计提供了必要的构建模块。Wolfspeed 提供双向充电解决方案, 允许 AC-DC 充电并将电力从电池恢复到电网。创建这种可靠的操作还需要可靠的 TE 连接器, 以确保每个子系统良好互连。该解决方案附带演示 AMR。



智能机器人需要传感器。IO-link 是一种开放标准, 受到全球传感器和控制公司的支持。该 IO-link 8 通道解决方案旨在演示由 SoC 提供支持的 Arrow IOLM4P 4 端口主控制器。使用两块 IOLM4P 来实现该 8 通道解决方案。外部主机用于管理和控制这 2 个主控制器并与 PLC 进行通信。该解决方案附带演示塔灯应用, 展示了通过 IO-link 通信主站和从站收发器 IC 连接到 8 个 IO-link 设备的简单性。

Arrow is proud to showcase the latest smart factory technologies in partnership with NXP, onsemi, TE & Wolfspeed. Step into our production line scenario and discover the innovations driving smart factory.

Smart factories need smart robots. For mobile robots to achieve optimal performance, smooth motion, and reliable operation, efficient and precise motor control is essential. As robots become more autonomous and sophisticated, advanced microcontrollers that can handle the complexities of motor control alongside other duties are in high demand. NXP's new i.MX and MCX portfolio of microcontrollers features cutting-edge TSN peripherals that enable developers to optimize motor control in mobile robotic systems, recognize objects intelligently via AI thermal and image processing power. This solution comes with demo production line.

With capabilities like self-driving cars, autonomous mobile robots (AMR) are complex designs made up of sub-systems that allow the robot to move, see and operate safely with minimal human interaction. Onsemi minimizes this complexity with reliable intelligent power and sensing solutions that provide the essential building blocks of your design. Wolfspeed offers bidirectional charging solution to allow AC-DC charging and restore the power from batteries to grid. Creating this reliable operation also needs reliable TE connectors to make sure every sub-system interconnect well. This solution comes with demo AMR.

Smart robots need sensors. IO-link is an open standard that is globally supported by sensor and controls companies. This IO-link 8-Channel solution is designed to demonstrate Arrow's IOLM4P 4 ports master controller powered by SoC. Two pieces of IOLM4P are used to implement this 8-channel solution. An external host is used to manage and control these 2 pieces of master controllers and communicate with PLC. This solution comes with demo tower light application showing the simplicity to connect to 8 IO-link devices via the IO-link communication master and slave transceiver IC.

展位号 / Booth No: G37

安泰天龙钨钼科技有限公司

ATTL Advanced Materials Co.,Ltd



地址 / Add: 北京市海淀区永丰产业基地永澄北路 10 号 C 区

Area C of AT&M, North Yongcheng Road 10, Yongfeng Industrial Base, Haidian District, Beijing, China

电话 / Tel: 86-10-58717301

邮箱 / E-mail: hujianglian@atmcn.com

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 航空航天 Aerospace, 医疗电子 Medical Electronics, 汽车工程 Automotive

公司简介 / Company Profile:

央企中国钢研集团下属公司

上市公司 (安泰科技股票代码: 000969) 全资子公司

国家高新技术企业、制造业单项冠军

70 余年难熔金属材料研发生产经验, 授权相关专利 130 余项

4 个研发制造基地, 总占地面积近 600 亩

A subsidiary of China Iron and Steel Research Institute Group, a state-owned enterprise

A wholly-owned subsidiary of a listed company (AT&M: 000969)

National high-tech enterprise, single champion of manufacturing industry

More than 70 years of experience in R&D and production of refractory metal materials,

and more than 130 related patents have been authorized

4 R&D and manufacturing bases, covering a total area of 600 acres

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management

产品介绍 / Products Description:

钼铜合金是由两种互不固溶的金属所组成的假合金, 兼具钼和铜的特性, 具有高热传导率、低热膨胀系数、无磁性、低气体含量、良好的真空性能、良好的机加工性及特殊的高温性能等特性。

相较于钨铜合金, 钼铜合金密度较低, 并且可以冲压加工, 适合超大批量生产。



MoCu alloy is a kind of pseudo-alloy that is composed of Molybdenum and copper. It consists of both the characteristics of molybdenum and copper, having high thermal conductivity, low adjusted thermal expansion coefficient, being non-magnetic, low content of gas, good vacuum resistance, good machinability and special high-temperature performance, etc.

Compared with WCu alloy, MoCu alloy has lower density and is easier to stamp. It makes MoCu suitable for volume produce.

展位号 / Booth No: D71

深圳市贝思科尔软件技术有限公司

BasiCAE Software Technology Limited



地址 / Add: 深圳市南山区科技园科丰路 2 号特发信息港 B 座 1203 室

Room 1203, Block B, Special Information Port, No. 2 Kefeng Road, Science and Technology Park,
Nanshan District, Shenzhen

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网址 / Web: <https://www.basicae.com/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

深圳市贝思科尔软件技术有限公司 (BasiCAE Software Technology Limited) 成立于 2011 年, 专注于为国内高科技电子、半导体、通信等行业提供先进的电子设计自动化 (EDA)、工程仿真分析 (CAE)、半导体器件热阻 (Rth) 及功率循环 (Power Cycling) 热可靠性测试, 以及研发数据信息化管理的解决方案和产品服务。我们的合作伙伴包括: Siemens EDA (原 Mentor)、Siemens Simcenter (西门子, CAE)、ATS (热测试设备)、Moldex3D 等。

BASICAE Software Technology Limited specializes in providing advanced solutions and consulting services in electronics/structure design, heat dissipation simulation analysis, semiconductor thermal reliability testing and design data information management for the domestic high-tech electronics and semiconductor industries. Our partners include Siemens EDA, Siemens Simcenter, Lumerical (Silicon Light design and Simulation), ATS (Thermal Measuring Instrument), Liquid Instruments (Electrical Test Equipment), Moldex3D etc.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 测试和测量 Test & Measurement, 开发软件 Development Software, 信息与服务 Information & Services

产品介绍 / Products Description:

一、Power Tester 功率循环测试设备——电力电子功率器件可靠性解决方案

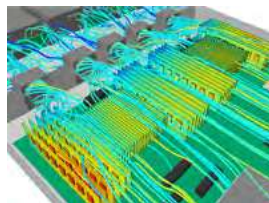
●兼具功率循环测试和瞬态热测试 ●多种功率循环测试模式 ●结构函数在线监测器件内部降级 ●功率循环实时记录监控多种热、电参数 ●提供热仿真软件校准接口 ●兼具可靠性测试和寿命评估

二、T3Ster SI 热阻测试仪——全球领先新一代半导体高性能瞬态热测试设备

●可测各种半导体器件的 K 系数、结温 Tj、Rthjc、Rthja 等热特性参数 ●获取器件的 RC 网络结构函数和详细热模型的联合校准 ●满足 JEDEC51-1 和 JEDEC51-14 标准 ●半导体器件封装内部结构分析和封装缺陷诊断

三、热仿真软件 FloTHERM——专业电子热设计 / 仿真分析软件, 全球超 80% 电子热设计工程师的选择

●多 CPU 无限并行运算 / 一流的求解速度 ●芯片级 / 板级 / 系统级 / 环境级热分析 ●80% 电子散热市场占有率 ●支持目标驱动自动优化设计 ●参数化建模功能 / 智能模型库 ●基于互联网的标准 IC 封装热分析模型库



1. Power Tester Power electronics reliability solutions

- It has both power cycling test and transient thermal test
- Multiple power cycle test modes
- Structure function online monitoring device internal degradation
- Realtime recording and monitoring of power cycles for a variety of thermal and electrical parameters
- Provide thermal simulation software calibration interface
- Both reliability test and life evaluation Thermal simulation software

2. T3Ster SI Thermal ResistanceTester

The world's leading new generation of semiconductor high-performance transient thermal test equipment

- It can measure the thermal characteristics of various semiconductor devices, such as K coefficient, junction temperature T_j , R_{thjc} , R_{thja} , etc
- Obtain joint calibration of the RC network structure function and detailed thermal model of the device
- Meets JEDEC51-1 and JEDEC51-14 standards
- Analysis of the internal structure of semiconductor device packaging and diagnosis of packaging defects

3. FloTHERM Professional electronic thermal design/simulation analysis software, the choice of more than 80% of the world's electronic thermal design engineers

- Multi-CPU infinite parallel operation/first-class solution speed
- Chip-level/board-level/system-level/environment-level thermal analysis
- 80% market share of electronic heat dissipation
- Support goal-driven automatic optimization design
- Parametric modeling function/intelligent model library
- Internet-based standard IC package thermal analysis model library

展位号 / Booth No: C63

北测 (上海) 电子科技有限公司

Beice(Shanghai) Electronic Technology Co., Ltd.



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电话 / Tel: 13651685701

邮箱 / E-mail: zuojb@beice-sh.com

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产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 消费电子 Consumers Electronics

公司简介 / Company Profile:

北测 (上海) 电子科技有限公司 2016 年成立于张江高科技园区, 是专业从事半导体集成电路可靠性测试的第三方独立实验室。经过 8 年的发展, 组建了专业的工作团队, 建立了完善的实验室管理体系, 添置了几百台各类进口及国产可靠性检测设备, 实验场地超过 3000 平方米, 公司发展至今, 已为几百家半导体分立器件和集成电路芯片设计公司、晶圆厂、封装厂以及科研院所提供完整的可靠性测试验证服务。在高可靠标准化的测试环境下, 公司已取得 CNAS 实验室认可证书、“检验检测机构资质认定证书”、“高新技术企业”等一系列资质认定。公司先后与北京大学、清华大学以及上海大学建立了长期稳定的产学研合作, 为公司服务能力创新提供有力的技术支持。公司注重研发, 每年通过自主研发获得多项知识产权授权, 并在设备国产化方面积极投入, 助力国产设备替代, 在车规芯片短缺现状下, 公司也将大力支持国内车规级芯片公司完成 AEC-Q100、AEC-Q101、AEC-Q200 及 AQC324 等芯片产品车规认证, 加速车规芯片的国产替代。

BC (Shanghai) Electronic Technology Ltd. was founded in 2016 with its operating location at Zhangjiang Hitech Zone. It is an independent third party laboratory dedicated to semi-conduct circuit reliability test. With 5 to 6 years development, BC (Shanghai) Electronic Technology Ltd. owns a professional team and sets up a complete laboratory management system. It is equipped with a variety of reliability test equipment worth of tens of millions of RMB. It has provided high quality testing service to more than a hundred clients which include semi-conduct discrete device and circuit chip engineering companies, technology development institutes and manufacturing companies. With its high standard testing environment, it is certified by CNAS and recognized as a qualified testing organization and hi-tech company in China. It is also admitted as a qualified supplier within SGS semiconductor circuit industry. The company also has long and stable industry-university-research institute collaboration with Institute of Microelectronics Peking University, Wuxi Research Institute of Applied Technologies Tsinghua University and School of Mechatronic Engineering and Automation Shanghai University. Collaboration with these organizations has provided the company a strong technic support for innovation. With its efforts in technology development, BC (Shanghai) Electronic Technology Ltd. now owns 16 patents and invested heavily in equipment manufacturing localization to facilitate the replacement of imported equipment. With the shortage of automotive-grade chips, the company will also facilitate domestic automotive-grade chip provider to pass AEC-Q certification and accelerate the replacement of imported chips.

With accuracy, efficiency and high reliability as its goal, the company is dedicated to providing its clients high quality technical service which is more complete, more advanced, more innovative.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 测试和测量 Test & Measurement

产品介绍 / Products Description:

车规芯片可靠性测试

AEC-Q100, AEC-Q101

主要服务项目AEC-Q100

A1	MSL	预处理	Moisture Sensitivity Level
A2	THB	温湿度偏压	Temperature & Humidity with Bias Test
A2	HAST	高加速应力	High Accelerated Stress Test
A3	AC	高压蒸煮	Pressure Cook Test
A3	UHAST	无偏压高加速应力	Unbiased HAST
A3	TH	恒温恒湿	Temperature Humidity (without Bias)
A4	TCT	温度循环	Temperature Cycling Test
A5	PTC	功率温度循环	Power and Temperature Cycle
A6	HTSL	高温储存	High Temperature Storage Test
B1	HTOL	高温工作寿命	High Temperature Operating Life Test
B2	ELFR	早期失效等级测试	Early Fail Rate Test
B3	EDR	非易失性存储器耐久性、数据保持和工作寿命	NVM Endurance, Data Retention, and Operational Life
C1	WBS	引线键合剪切	Wire Bond Shear
C2	WBP	引线键合拉力	Wire Bond Pull
C3	SD	可焊性	Solderability
E2	HBM	人体放电模式	Electrostatic Discharge Human Body Model
E3	CDM	器件充放电模式	Electrostatic Discharge Charged Device Model
E4	LU	门锁效应	Latch-Up



功率器件参数测试

DC	BVDSS	Drain-Source Breakdown Voltage
	IDSS	Zero Gate Voltage Drain Current
	IGSS	Gate-Source Leakage Current
	V _{gs(th)}	Gate Threshold Voltage
	RDSON	Static Drain-Source On-Resistance
	VFS	Source-Drain Diode Forward Voltage
	GMP	Forward Trans Conductance
AC	QG	Total Gate Charge
	QGS	Gate to Source Charge
	QGD	Gate to Drain(miller) Charge
	RG	Gate Resistance
	CISS	Input Capacitance
	COSS	Output Capacitance
	CRSS	Reverse Transfer Capacitance
	Td(on)	Turn-on Delay Time
	Tr	Rise Time
	Td(off)	Turn-off Delay Time
	Tf	Fall Time
	Qrr	Body Diode Reverse Recovery Charge
	Trr	Body Diode Reverse Recovery Time
	IAS/EAS	Avalanche Current/Energy
TR	Rth-Ja	Thermal Resistance-Junction to Ambient
	Rth-Jc	Thermal Resistance-Junction to case
	Zth-Ja	Transient Thermal Responser Curve-Junction to Ambient
	Zth-Jc	Transient Thermal Responser Curve-Junction to Case



展位号 / Booth No: D54

北京贝茵凯微电子有限公司

Beijing Byinka Microelectronics Co., Ltd



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邮箱 / E-mail: sales@byinka.cn

网址 / Web: http://www.byinka.cn/

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

贝茵凯微电子由国内功率半导体行业顶尖的产品研发团队和资深产业链整合团队创办, 致力于先进功率器件研发、设计、开发、制造与相关产品集成, 具备全新第 7 代 IGBT 功率芯片设计和开发能力, 同时也是国内碳化硅功率芯片行业的领航者之一。

2023 年 7 月, 贝茵凯微电子完全自主产权的第 7 代 1200V 200A IGBT 大功率芯片一次性流片成功, 动静态指标均达到优秀水平, 成功填补国内空白, 打破了国外品牌在该领域的长期垄断地位, 产品力已达到国际一线水准。进入 2024 年后, 贝茵凯微电子自主研发的 IGBT 功率器件在新能源汽车、光伏、储能等重点行业的多家头部企业进行试用或小批量上机, 反馈优秀, 部分指标超越国际一线品牌, 充分证明了贝茵凯微电子的技术实力, 奠定了贝茵凯微电子在我国功率器件市场的先进地位。

Beijing Byinka Microelectronics Co., Ltd. was founded by the top R&D team of the domestic power semiconductor industry and the senior industry chain integration team, dedicated to the research and development of advanced power devices, design, development, manufacturing and related product integration, capable of designing and developing the brand new 7th generation of IGBT power chips, besides, Byinka is also one of the leaders of the third-generation Semiconductor Silicon Carbide Power Chip industry in the domestic market.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

- 1、BIK 第七代 IGBT 功率芯片 1200V 系列
- 2、BIK 第七代 IGBT 功率芯片 1700V 系列
- 3、BIK 第七代 IGBT 车规级功率芯片系列



- 1、BIK 7th Generation IGBT Power Chip (1200V Series)
- 2、BIK 7th Generation IGBT Power Chip (1700V Series)
- 3、BIK 7th Generation IGBT Power Chip (Automotive Grade)

展位号 / Booth No: E76

北京交通大学

Beijing Jiaotong University



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网址 / Web: https://www.bjtu.edu.cn/

产品应用范围 / Scope of Applications:

轨道交通 Rail + Traction, 电力供应 Power Supply

公司简介 / Company Profile:

北京交通大学电力电子与电力牵引研究所（简称电力电子研究所）成立于 2004 年，是电力牵引教育部工程研究中心和中车研究院北京交大绿色动力系统技术分院的主要承建所。近年来研究所围绕轨道交通电能变换技术、特种电源、储能系统、新能源并网、宽禁带半导体器件应用技术等领域开展了卓有成效的研究工作，研制出多个系列的电能变换与节能装备，并成功实现了产业化。研究所注重产学研合作，先后与众多国内外科研机构和企业建立了长期的密切合作关系，为企业的核心技术研发提供技术支撑。

Power Electronics and Electric Drives Institute was established in 2004, is the main construction department of the Engineering Research Center for Electric Traction of the Ministry of Education and CRRC Research Institute Beijing Jiaotong University Green Power System Technology Branch. In recent years, the institute has carried out fruitful research work in the fields of rail transit energy conversion technology, special industry power supply, energy storage system, renewable energy grid-connected, wide-band-gap semiconductor device application technology, etc., developed several series of electric energy conversion and energy-saving equipment, and successfully realized industrialization. The Institute attaches great importance to industry-university-research cooperation, and has established long-term close cooperative relations with many domestic and foreign research institutions and enterprises, providing technical support for the core technology research and development of enterprises.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System

产品介绍 / Products Description:

1. 全碳化硅电力机车辅助变流器。开发应用于电力机车的全碳化硅辅助变流器，引入谐振开关电容变换器实现小型化及轻量化设计，基于富士电机碳化硅器件开发了两代辅助变流器样机，最高效率达 99.4%。
2. 全碳化硅地铁车辆辅助变流器。开发应用于地铁车辆的全碳化硅地铁车辆辅助变流器，采用具有自主知识产权的高频隔离型谐振开关电容变换器拓扑，有效降低系统重量和体积；通过复用开关器件减少开关器件数量，降低器件电气应力和系统成本，实现紧凑化设计。
3. 储能型再生制动能量利用技术。储能型再生制动能量利用技术采用超级电容、锂电池、飞轮等作为储能元件，通过预测变电所和列车信息，实时调整充放电指令，实现节能降耗、削峰填谷和紧急牵引等功能。助力碳达峰、碳中和，提升牵引供电系统的可靠性。
4. 碳化硅储能变流器。开发面向地铁应用的车载碳化硅储能变流器，由富士电机碳化硅功率器件及其驱动、储能电感等组成，系统采用强制风冷方案，并配有固态断路器以提升储能变流器的抗短路能力。
5. 具有自激短路电流健康状态检测功能的 IGBT 驱动电路。自主开发的驱动模块除欠压 / 短路检测、功率放大和逻辑处理等传统功能，新增状态监测功能，在结温满足要求的情况下，驱动电路通过监测 IGBT 的自激短路电流即可在线监测 IGBT 键合线断裂等引起的老化失效故障。
6. 石油钻探井下高温电源。开发应用于石油钻探的井下高温辅助电源，满足井下高温电机驱动电路供电，实现了关键核心技术自主可控，在石油钻探领域具有广阔的应用前景。



具有自激短路电流健康状态检测功能的 IGBT 驱动电路实物
IGBT drive circuit with self-excited short-circuit current health detection function





井下高温辅助电源样机

High temperature auxiliary power supply for oil drilling

1.All SiC Based Auxiliary Power Converter for Electric Locomotive. The all SiC based auxiliary power converter is built for electric locomotive application. The resonant switched capacitor converter is employed to achieve miniaturization and lightweight design. Based on the SiC modules from Fuji Electric Co., Ltd, two generations of auxiliary power converters are developed, with the peak efficiency of 99.4%.

2.All SiC Based Auxiliary Power Converter for Metro Vehicles. The all SiC based auxiliary power converter for metro vehicles is developed. The high-frequency isolated resonant switched capacitor converter topology with independent intellectual property rights is adopted to reduce the volume and weight of the system. By multiplexing switching devices, the total number of switching devices is reduced, the electrical stress and cost are also reduced, while achieving compact design.

3.Energy Storage Based Regenerative Braking Energy Utilization Technology. Super capacitor, lithium batteries, flywheels, etc. are used as the energy storage components in the energy storage based regenerative braking energy utilization system. By predicting the operation information of electrical substation and trains, both charging and discharging commands are adjusted in real time to achieve energy conservation and consumption reduction, peak shaving and valley filling, and emergency traction. The technology assists in carbon peaking and carbon neutrality, and improves the reliability of traction power supply systems.

4.SiC Based Energy Storage Power Conversion System PCS. An on-board SiC based energy storage based power conversion system (PCS) for metro vehicles is developed, which is composed of SiC modules by Fuji Electric Co., Ltd., drivers, energy storage inductors, etc. The system adopts a forced air-cooling scheme and is equipped with a solid-state circuit breaker to improve the short-circuit resistance of PCS.

5.IGBT drive circuit with self-excited short-circuit current health detection function. The IGBT drive circuit with self-excited short-circuit current health detection function is developed. In addition to the traditional functions such as under-voltage/short-circuit detection, power amplification and logic processing, the self-developed drive circuit adds the condition monitoring function. When junction temperature meets the requirements, the aging failure caused by fracture of IGBT bonding wires can be monitored by detecting the self-excited short-circuit current of the IGBT.

6.High temperature power supply for oil drilling. The underground high temperature auxiliary power supply used in oil drilling is developed to satisfy the power supply of the underground high temperature motor drive circuit, and the key core technology is controllable, which has a broad application prospect in the field of oil drilling.

展位号 / Booth No: G45

北京清连科技有限公司

Beijing QLsemi Technology Co.,Ltd



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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply, 汽车工程 Automotive, 风能 Wind Energy

公司简介 / Company Profile:

北京清连科技有限公司总部位于北京经济技术开发区, 是一家专注银烧结、铜烧结解决方案供应商, 同时设有天津设备生产组装车间与苏州办事处, 总占地 3000 余平米。核心团队均博士毕业于清华大学, 依托近 20 年银、铜烧结材料与设备研发基础, 清连科技自主开发了对标欧美产品的银烧结材料与设备, 解决了当前银烧结存在的痛点; 并且是国内外极少数掌握铜烧结全套解决方案 (封装材料 + 封装装备 + 工艺) 的半导体公司之一。

Beijing QLsemi Technology Co.,Ltd, which focuses on Ag/Cu sintering technology solutions, is headquartered in Beijing Economic-Technological Development Area. The company is with a production and assembly workshop in Tianjin and a branch office in Suzhou, as well as total area of 3000 m². The core team members all received Ph.D. degree from Tsinghua University. Based on nearly 20 years of R&D of Ag/Cu sintering technology, QLsemi has independently developed Ag sintering materials and accompanied equipments that are comparable to those of European and American standards, and further solved the current pain points. QLsemi is one of the few semiconductor companies that proficient in the complete solution for sintered Cu (packaging materials + accompanied equipments + corresponding sintering process).

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 电力供应 Power Supply, 测试和测量 Test & Measurement, 信息与服务 Information & Services

产品介绍 / Products Description:

① 芯片级有压烧结银 / 铜膏: 采用自主研发配方, 具有优异导电导热性能和高剪切强度, 能在金、银、铜基板上实现高可靠烧结连接, 为大功率器件封装提供高可靠解决方案。

② 大面积烧结解决方案: 清连科技针对 AMB 基板、散热板之间的连接需求, 开发了大面积有压烧结银 / 铜膏和大面积有压烧结银 / 铜片, 可将烧结条件降低至 220°C、10MPa, 为客户提供高可靠的大面积烧结封装解决方案。

③ 有压烧结设备: 清连科技成功开发了实验型、中试型、量产型铜烧结专用设备, 且可兼容银烧结。该系列烧结设备具备优异的抗氧化能力, 自主开发的活化气氛处理技术可降低烧结温度, 提高烧结可靠性。



大面积有压烧结银膏



大面积有压烧结铜膏



大面积有压烧结银/铜片



小面积有压烧结设备



中试型有压烧结设备



量产型有压烧结设备

① Ag/Cu paste for pressure-assisted die-attachment: The self-developed formula leads to excellent electrical/thermal conductivity and high shear strength. The highly robust sintered joint can be achieved on gold, silver, and copper substrates, providing a promising and reliable solution for high-power electronics packaging.

② Large-area sintering solution: QLsemi has developed Ag/Cu paste/sheet for large-area bonding between AMB substrate and heat dissipation plate. The sintering temperature and pressure can be decreased to 220°C and 10 MPa, providing highly reliable large-area sintering solution for power devices.

③ Sintering equipment: QLsemi has developed experimental, pilot, and mass-production copper sintering equipments, which are also suitable for silver sintering. This series of equipment possess excellent anti-oxidation ability, and the self-developed activated atmosphere technology can reduce the sintering temperature and improve the reliability of bonding.

展位号 / Booth No: A12

北京首冶磁性材料科技有限公司

Beijing Shouye Magnetic Material Science and Technology Co., Ltd.

北京首冶磁性材料科技有限公司
Beijing Shouye Magnetic Material Science and Technology Co., Ltd.

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产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 医疗电子 Medical Electronics, 通信 Communications

公司简介 / Company Profile:

北京首冶磁性材料科技有限公司是首钢集团旗下、北京北冶功能材料有限公司控股的北京市高新技术企业, 是国内最早开展非晶、纳米晶软磁材料基础及应用研究的单位, 是国家非晶、纳米晶材料产品化重点科技攻关项目的主要承担单位之一。多年来, 我司在相关领域获得多项国家级、省部级、市级科研成果, 拥有独立完整的开发、生产、装备体系, 拥有自主知识产权, 是相关领域技术进步的领军单位。我司产品广泛应用于工业、汽车、光伏、医疗、铁路、军工航空航天等行业, 涉及互感器, 传感器, 电感器, 磁屏蔽等多种应用。

Beijing Shouye Magnetic Material Science and Technology Co., Ltd. is a high-tech enterprise in Beijing under Shougang Group and controlled by Beijing Beiyue Functional Materials Co., Ltd. It is the earliest unit in China to carry out basic and applied research on amorphous and nanocrystalline soft magnetic materials, and is one of the main undertaking units of the national key scientific and technological public relations project for the productization of amorphous and nanocrystalline materials. Over the years, our company has obtained multiple national, provincial, and municipal scientific research achievements in related fields. We have an independent and complete development, production, and equipment system, and independent intellectual property rights. We are a leading unit in technological progress in related fields. Our products are widely used in industries such as industrial, automotive, photovoltaic, medical, railway, military aviation and aerospace, involving various applications such as transformers, sensors, inductors, magnetic shielding, etc.

产品范围 / Topics:

被动元件 Passive Components, 传感器 Sensors, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 测试和测量 Test & Measurement

产品介绍 / Products Description:

1. 我司传感器磁芯主要分为磁补偿式霍尔电流传感器磁芯及磁通门电流传感器。

(1) 磁补偿式霍尔电流传感器磁芯具有低的矫顽力和低的剩余磁感, 高的磁导率以获得高灵敏度, 良好的频率特性被广泛应用于 UPS 电源、光伏发电、通讯机房、数控机床、微机监测系统、电网监控系统和需要隔离检测电流的各个领域中。

(2) 磁通门电流传感器, 按基础材料可分为纳米晶和钴基非晶磁芯, 因其不同的矫顽力以及损耗水平可囊括不同的使用场景中, 如电动汽车、可再生能源, 医疗器械, 工业自动化等。

2. 共模滤波用磁芯作为我司核心竞争力产品具有较高的饱和磁感应强度, 优良而灵活的频率特性: 可通过调整不同的磁导率水平获得不同的频率特性曲线, 同时具有较宽的磁导率调整范围: 可通过调整生产工艺灵活调整磁导率 从 5000 到 120000@10kHz, 且随着带材及热处理工艺的提升, 批产磁导率 @100kHz 可以提升至 38000。所有共模磁芯均具有较强的温度稳定性, 被广泛应用于新能源汽车, 智能家电, 光伏逆变器等领域。

3. 我们的漏电开关保护器用磁芯具有高磁导率、低矫顽力、低损耗, 磁导率调整范围宽, 可满足不同波形、不同漏电电流大小的检测。其优良的温度稳定性, 可以在 -25℃ ~ 100℃ 下稳定工作: $U_{avg}(100^\circ\text{C} / -25^\circ\text{C}) / U_{avg}(20^\circ\text{C}) = 0.7 \sim 1.2$ 可以保证漏电保护开关的长期稳定运行。

1. Current sensor core

Our sensor cores are mainly divided into magnetic compensation Hall current sensor cores and flux gate current sensors.

(1) The magnetic compensation type Hall current sensor core has low coercivity and low residual magnetic inductance, high magnetic permeability to achieve high sensitivity, and good frequency characteristics. It is widely used in UPS power supply, photovoltaic power generation, communication rooms, CNC machine tools, microcomputer monitoring systems, power grid monitoring systems, and various fields that require isolated detection of current.

(2) Flux gate current sensors can be divided into nanocrystalline and cobalt based amorphous magnetic cores according to their basic materials. Due to their different coercivity and loss levels, they can be used in different scenarios, such as electric vehicles, renewable energy, medical devices, industrial automation, etc.

2. Common mode choke core

The magnetic core used for common mode filtering is our core competitive product, which has high saturation magnetic induction intensity and excellent and flexible frequency characteristics. Different frequency characteristic curves can be obtained by adjusting different levels of magnetic permeability. The wide range of magnetic permeability can be adjusted from 5000-120000 @10kHz, and with development of ribbon thickness and annealing process the minimum permeability can be achieved is 38000@100kHz. And all of our CMC cores have strong temperature stability by adjusting the production process. Widely used in fields such as new energy vehicles, smart home appliances, photovoltaic inverters, etc

3. RCCB core

Our leakage switch protector used magnetic cores are with high magnetic permeability, low coercivity, and low loss. The magnetic permeability adjustment range is wide, which can meet the detection of different waveforms and leakage current sizes. And it has excellent temperature stability, which can work stably at -25 °C ~100 °C : $U_{avg}(100\text{ }^{\circ}\text{C} / -25\text{ }^{\circ}\text{C}) / U_{avg}(20\text{ }^{\circ}\text{C}) = 0.7 \sim 1.2$ can ensure the long-term stable operation of the leakage protection switch.

展位号 / Booth No: E44

北一半导体科技 (广东) 有限公司

Beiye Semiconductor Technology Co Ltd

BYSM 北一

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产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

北一半导体科技 (广东) 有限公司是一家集功率半导体器件研发、生产、封装、测试、销售及服务为一体的国家高新技术企业, 总部坐落于深圳市福田区, 拥有研发设计、前期工艺认证、可靠性实验测试、失效分析实验室。公司总投资 4.5 亿多元, 分公司在黑龙江省穆棱市经济开发区建立了 16500 平米的生产基地, 主要经营功率半导体元器件, 包括 IGBT、PIM、IPM 等产品, 所有产品质量稳定可靠, 均符合国家各项检测标准。

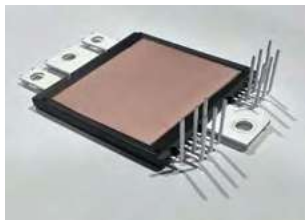
Beiye Semiconductor Technology (Guangdong) Co., Ltd. is a national high-tech enterprise that integrates the research and development, production, packaging, testing, sales, and service of power semiconductor devices. Its headquarters is located in Futian District, Shenzhen, and it has research and development design, preliminary process certification, reliability testing, and failure analysis laboratories. The total investment of the company is over 450 million yuan. The branch has established a 16500 square meter production base in the Economic Development Zone of Muling City, Heilongjiang Province, mainly engaged in power semiconductor components, including IGBT, PIM, IPM and other products. All products have stable and reliable quality and meet various national testing standards.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

应用于新能源汽车电机控制器, 提供 950V 及 1200V 电压等级的 IGBT 和全 SiC 模块, 已通过 AQC324 考核, 适用于批量装车



展位号 / Booth No: G42

南京百识电子科技有限公司

Best Compound Semiconductor Co., Ltd.



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网址 / Web: <https://www.bestcompsemi.com/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

南京百识电子科技有限公司成立于 2019 年, 是一个拥有多年量产经验的专业团队。

凭借雄厚量产经验, 南京百识电子以高质量制造能力, 提供六吋、八吋碳化硅, 四吋、六吋碳化硅基氮化镓, 以及六吋、八吋硅基氮化镓专业外延代工服务, 以满足新世代功率器件开发市场需求。除了标准规格外延片, 南京百识电子亦可针对特殊应用市场需求, 提供客制化规格外延服务, 及器件开发所需关键制程。

致力于成为国际一流的功率与微波外延代工厂, 串接国内产业链在 5G 与电动车相关应用。

Best Compound Semiconductor Co., Ltd. founded in 2019, is a professional team to set up a research/development headquarter and a manufacturing plant in Nanjing, China.

Relying on the manufacturing capacity of strong mass production experiences, Best Compound Semiconductor Co., Ltd. provides high quality manufacturing in offering SiC/SiC and GaN/Si Epitaxy Wafer on 6" and 8", as well GaN/SiC on 4" and 6" to satisfy the latest demand of power devices developments. Besides the standard wafers, Best Compound Semiconductor Co., Ltd is also capable for the niche product depends on customer's request.

The Goal of Best Compound Semiconductor Co., Ltd is to be a global leader in providing WBG Epitaxy Wafers Services for use in High Voltage, High Power applications. And to be a international first-class POWER device wafer foundry by connecting the domestic supplying chain in 5G and Electric Vehicle related applications.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 散热管理 Thermal Management, 传感器 Sensors, 配置和子系统 Assemblies and Subsystems, 伺服技术 / 执行器 Electrical Drives, 智能运动 Intelligent Motion, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 测试和测量 Test & Measurement, 开发软件 Development Software, 信息与服务 Information & Services

产品介绍 / Products Description:

1. SiC/SiC 外延片
2. GaN/Si 外延片
3. GaN/SiC 外延片

1. SiC/SiC Epitaxy Wafer
2. GaN/Si Epitaxy Wafer
3. GaN/SiC Epitaxy Wafer



展位号 / Booth No: G28

浙江莘锦半导体有限公司

bestirpower



bestirpower

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网址 / Web: <https://www.bestirpower.com>

产品应用范围 / Scope of Applications:

充电桩模块, 电动汽车 (电控单元, OBC, 空压机驱动器), 光伏, 储能, 大功率电源, 逆变焊机, 固态断路器, 电池化成, 感应加热, 氢燃料空压机, 暖通空调 HVAC, LED, 固态变压器, APF 有源电力滤波器, UPS, 电机控制, 无人机

公司简介 / Company Profile:

莘锦半导体 是浙江省高新技术企业, 以 Smart IDM 模式, 专注于新一代功率半导体的芯片设计、器件研发、生产、销售和应用服务。公司致力于在新能源汽车、算力、储能、风电、工业驱动等领域, 提供高可靠、高性能的分立器件、模块和板级方案, 产品包括 600v ~ 2000v 电压平台的第三代半导体碳化硅 SiC MOSFET 和模块, 硅基超结 SJ MOS、IGBT 分立器件和模块、新型合封功率芯片和板级系统方案等。

公司拥有成熟量产的 SiC MOSFET 和 IGBT 超薄晶圆背面特色工艺, 性能和参数对标国际产品; 在芯片制造价值链上, 可以提供一站式 FSM+BGBM 中后道完整解决方案, 对标国际领先技术水平, 定制背面金属及减薄工艺, 保证产品高性能和高性价比, 提高产品竞争力。

公司在宁波和上海设立总部, 负责芯片设计和研发, 在上海、深圳、西安等地建有应用和销售中心, 制造基地位于宁波慈溪高新区, 42,000 平米功率芯片制造厂房正在筹建中。

Cuijin Semiconductor is a high-tech enterprise in Zhejiang Province, focusing on chip design, device research and development, production, sales, and application services for the new generation of power semiconductors under the Smart IDM model. The company is committed to providing highly reliable and high-performance discrete devices, modules, and board level solutions in the fields of new energy vehicles, computing power, energy storage, wind power, and industrial drives. Its products include third-generation semiconductor silicon carbide SiC MOSFETs and modules with voltage platforms ranging from 600V to 2000V, silicon-based super junction SJ MOS, IGBT discrete devices and modules, new encapsulated power chips, and board level system solutions.

The company has mature and mass-produced SiC MOSFET and IGBT ultra-thin wafer backside characteristic processes, with performance and parameters benchmarking international products; In the chip manufacturing value chain, we can provide a complete solution for the back-end of "one-stop FSM+BGBM", benchmarking international leading technology levels, customizing backside metal and thinning processes, ensuring high performance and cost-effectiveness of products, and improving product competitiveness.

The company has set up headquarters in Ningbo and Shanghai, responsible for chip design and research and development. It has established application and sales centers in Shanghai, Shenzhen, Xi'an and other places. The manufacturing base is located in Cixi High tech Zone, Ningbo, and a 42000 square meter power chip manufacturing plant is under construction.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

SiC MOSFET ,SJ MOSFET ,SiC DIODE.HV Planar MOSFET



展位号 / Booth No: G35
重庆键合科技有限责任公司
Bonding-tech.Co,LTD



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网址 / Web: <https://www.bonding-tech.com/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

键合科技是专注于冷气体高速动力射流 (CGDS) 技术研发与技术应用的专业化科技创新型企业, 公司拥有二十多项专利以及相关技术秘密, 拥有底层原创技术, 形成自主装备与独立完整的技术体系, 是国内仅有、全球少数拥有底层基础技术并将技术与产业实现深度融合的企业。目前在新型高性能导电材料开发、电力电子领域热管理的应用、头部企业的定制化应用等领域有坚实的应用成果、竞争优势与技术优势。公司近 3 年陆续推出的高压中置柜静触头、高压隔离开关 (ZW32/GN19/GW9)、高压配电柜接地刀座、异型母排、套管用导电杆等产品 (性能、可靠性与性价比优势) 得到了广大客户与市场的充分验证与肯定。

Jianhe Technology has continuously developed and applied cold gas high-speed power jet (CGDS) technology for over 20 years. It is one of the few enterprises in the world with underlying technology, deep industrialization, and an independent technical system and equipment.

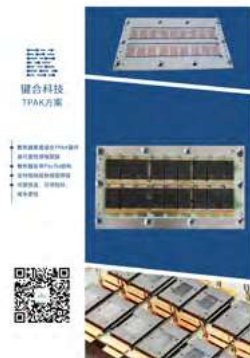
Chongqing Jianhe Technology relies on this technology to produce welding/conductive coatings on the surface of aluminum radiators and alloy conductive bars. The bonding strength far exceeds that of chemical/electroplated nickel and has higher thermal conductivity, conductivity, and weldability. The cost is more optimized, and it perfectly supports the connection between power devices and radiators through tin soldering or silver sintering, ensuring the long-term stable use of IGBT/SiC devices for heat dissipation and conductive bars in electric vehicles, optical storage, wind energy, and industrial automation.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 散热管理 Thermal Management

产品介绍 / Products Description:

IGBT/SiC 模块热管理、可锡焊 / 银烧结铝质水冷 / 风冷散热器、高导电合金母排



IGBT/SiC module thermal management, solderable/silver sintered aluminum water-cooled/air-cooled radiator, high conductivity alloy busbar

展位号 / Booth No: E40

博世 (中国) 投资有限公司

Bosch (China) Investment Ltd.



地址 / Add: 江苏省苏州市工业园区苏虹西路 126 号

No. 126, Su Hong Xi Road, Suzhou Industrial Park, Suzhou, Jiangsu, China.

邮箱 / E-mail: jill.zhu@cn.bosch.com

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 电力供应 Power Supply, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

博世集团是世界领先的技术及服务供应商。汽车与智能交通技术是博世最大的业务板块。作为领先的汽车零部件及方案供应商, 博世旨在打造可持续、安全和轻松的未来出行愿景。我们为客户提供从芯片到零部件到系统到解决方案的一体化服务。在新兴的电动化领域, 博世更是引领行业技术创新。博世的碳化硅产品覆盖 SiC 芯片、模块、电驱动系统, 展示了我们在功率电子产品开发和验证方面的全领域能力。通过垂直整合, 博世为客户提供可靠的产品及卓越的产品性能。

The Bosch Group is a leading global supplier of technology and services. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. Mobility Solutions is Bosch's largest business sector in China. As a leading supplier of automotive components, Bosch aims to create a vision of sustainable, safe, and effortless future mobility. We provide customers with integrated smart mobility solutions, including diversified powertrains, driver assistance and automation functions, vehicle safety, and more. In the field of electrification, Bosch leads the industry in technological innovation. Bosch's silicon carbide (SiC) products cover the entire range from SiC chips to power modules to electric drive systems, showcasing our comprehensive capabilities in power electronics product development and validation. Through vertical integration, Bosch offers customers reliable products and excellent product performance.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 能源储存系统 Power Quality & Energy Storage

产品介绍 / Products Description:

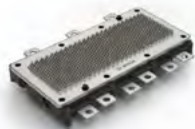
牵引逆变器及车载充电器用第二代碳化硅功率芯片

博世提供 1200V 和 750V 两种电压等级 MOSFET, 拥有自主知识产权的 SiC 技术, 能够独立自主地完成碳化硅的研发、生产及检测。基于博世领先的沟槽栅专利技术, SiC MOSFET 在性能和鲁棒性上都有优异的表现。博世第二代产品 MOSFET, 同比第一代, 碳化硅芯片功率密度更高, 改进了体二极管, 加快了开关速度, 并降低了开关损耗。1200V 和 750V 的产品均于 2024 年进入量产。



牵引逆变器碳化硅功率模块 CSL

专为电动汽车逆变器应用而设计。CSL (紧凑型) 功率模块系列旨在满足电动汽车大众市场的主要需求。



路电流型栅极驱动器 EG12x

EG12x 是高压 SiC 或 IGBT 的栅极驱动 IC, 主要用于新能源汽车牵引逆变器。EG12x 采用电容耦合技术, 在低压和高压领域之间提供电气隔离, 并支持在逆变器的运行期间根据实际工作情况选择最佳的栅极充电和放电曲线。EG12X 拥有多达 133 种 (EG120) /126 种 (EG121) 不同的栅极驱动电流配置曲线。



SiC power MOSFETs Gen2 for traction inverters and OBC

Bosch offers MOSFETs with voltage ratings of 1200V and 750V, utilizing IP-protected SiC technology that allows for independent research, development, production, and testing of silicon carbide. Leveraging Bosch's advanced trench gate technology IP, the SiC MOSFETs exhibit excellent performance and robustness. Compared to the first generation, Bosch's second-generation MOSFETs feature higher power density in silicon carbide chips, improved body diodes, faster switching speeds, and reduced switching losses. Both the 1200V and 750V products are set to enter mass production in 2024.

Power Module for Traction Inverters CSL

Designed for inverters in electric vehicles. The CSL (Compact Silicon Carbide Line) range of power modules has been designed to cover all major requirements of the EV mass.

Current Profile 4 Channel Gate Driver IC

The EG12x is a high-voltage SiC or IGBT gate driver IC designed for automotive traction inverters. The EG12x implements capacitive coupling technology to provide galvanic isolation between low voltage and high voltage domains. EG12x supports the selection of optimum gate charge and discharge profiles for the actual inverter operating condition during runtime. EG12x can be programmed with up to 133(EG120)/126(EG121) different gate current profiles for charging and discharging of the power transistors.

展位号 / Booth No: E24
深圳青铜剑技术有限公司
Bronze Technologies Ltd.



地址 / Add: 广东省深圳市南山区高新园区高新南七道国家工程实验室大楼 B 座 11 层
11th Floor, Block B, National Engineering Laboratory Building, Nanshan District, Shenzhen, China
电话 / Tel: 86-755-86329497
邮箱 / E-mail: info@qtjtec.com
网址 / Web: https://www.qtjtec.com/

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电力供应 Power Supply, 汽车工程 Automotive, 风能 Wind Energy

公司简介 / Company Profile:

深圳青铜剑技术有限公司是中国功率器件驱动行业的开拓者, 专注于功率器件驱动器、驱动 IC、测试设备的研发、生产、销售和服务, 致力于为客户提供集成化、智能化、自主可控的电力电子解决方案。公司成功研发中国首款大功率 IGBT 驱动 ASIC 芯片, 推出 IGBT 标准驱动核、即插即用型驱动器、成套驱动方案、驱动电源、隔离驱动 IC、驱动芯片组、功率器件动态参数测试系统等。产品获得 UL 认证, 已广泛应用于新能源、电动汽车、智能电网、轨道交通、工业控制等多个领域。

Bronze Technologies Ltd. in Shenzhen is a pioneer in China's power device driver industry. Bronze specialises in R&D, manufacturing, marketing and services for power device gate driver board & ICs and test equipment. The company also offers integrated, intelligent power electronics solutions from in house to its customers. Bronze has successfully developed the first high-power IGBT driver ASIC chip in China and launched a complete series of products, including IGBT standard driver cores, plug-and-play drivers, customized driver solutions, isolated power supplies, isolated driver ICs, driver chipsets and Power Device Dynamic Parameter Test System. The products are UL certified, and are widely applied in applications such as renewable power generation, electric vehicles, smart grids, locomotive traction, industrial drives.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 测试和测量 Test & Measurement

产品介绍 / Products Description:

1. 将核心驱动电路以“芯片”形式呈现;

外围电路搭建简单, 便于开发;

可覆盖 650~3300V 的功率器件;

最大驱动功率 5W, 驱动电流 35A。

2. 即插即用驱动

即插即用, 无需外围搭建电路, 适用于快速开发;

可覆盖 1200~3300V 的功率器件;

最大驱动功率 6W, 驱动电流 35A;

可覆盖 62mm, EconoDual, PrimePack, IHM, XHP 等封装。

3. 驱动电源

用于驱动电路副边供电;

使用简单, 便捷可靠;

绝缘电压最高可达 15000VAC

输出功率最高可达 6W;

不同产品驱动电压可覆盖大多数功率器件门极电压

4. 成套驱动方案

采用主板 + 门极板的方案

可覆盖 62mm, EconoDual, PrimePack, IHM, XHP 等多种封装;

可覆盖 ANPC/NPC I 型三电平、T 型三电平、两电平并联等应用场景, 单机功率最大可到 3MW。

驱动整体解决方案



驱动核

- 将核心驱动电路以“芯片”形式呈现;
- 外围电路搭建简单, 便于开发;
- 可覆盖650~3300V的功率器件;
- 最大驱动功率5W, 驱动电流35A。



驱动电源

- 用于驱动电路辅助供电;
- 使用简单, 便捷可靠;
- 绝缘电压最高可达15000VAC
- 输出功率最高可达6W;
- 不同产品驱动电压可覆盖大多数功率器件门级电压。



即插即用驱动

- 即插即用, 无需外围搭建电路, 适用于快速开发;
- 可覆盖1200~3300V的功率器件;
- 最大驱动功率6W, 驱动电流35A;
- 可覆盖62mm, EconoDual, PrimePack, IHM, XHP等封装。



成套驱动方案

- 采用主板+门极板的方案
- 可覆盖62mm, EconoDual, PrimePack, IHM, XHP等多种封装;
- 可覆盖ANPC/NPC I型三电平, T型三电平、两电平等多并联等应用场合, 单机功率最大可到3MW。



1. Gate Driver Cores

Core circuitry as ICs

Simple peripheral circuits

Covers power devices 650~3300V

Max. drive power 5W, current 35A

2. Plug-and-Play Gate Drivers

Plug-and-play, no peripheral circuit required, suitable for rapid development

Covers power devices 1200~3300V

Max. drive power 6W, current 35A

For power modules 62mm, EconoDual, PrimePack, IHM, XHP etc

3. Driver Power Supplies

For secondary power supply

Simple, convenient and robust

Insulation voltage up to 15000VAC

Power up to 6W

Different drive voltages available to cover most power devices Vg

4. Gate Driver System Solutions

Main board + gate driver board

For power modules 62mm, EconoDual, PrimePack, IHM, XHP etc.

Cover ANPC/NPC I-Type, T-Type 3-level, 2-level parallel, single unit up to 3MW

展位号 / Booth No: G22

Celanese Micromax



地址 / Add: 上海市浦东新区金科路 2340 号

No. 2340, Jinke Road, Pudong New District, Shanghai, China 201210

邮箱 / E-mail: info-engineeredmaterials-asia@celanese.com

网址 / Web: <https://www.celanese.com/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 消费电子 Consumers Electronics, 医疗电子 Medical Electronics, 通信 Communications, 汽车工程 Automotive

公司简介 / Company Profile:

塞拉尼斯公司是化学及特种材料解决方案的全球领导者, 产品被广泛应用于大多数主要行业和消费品领域。充分利用广博的化学、技术和业务专长, 我们的业务为客户、员工和公司股东创造价值。我们负责任地管理我们所生产的材料、不断发展我们的可持续产品组合来支持可持续发展, 以满足客户和社会的需求。我们努力为社区播撒积极影响, 同时不断促进团队的包容性。塞拉尼斯是一家美国财富 500 强企业, 全球约有 12,400 名员。2023 年净销售额达 109 亿美元。

Celanese is a global leader in chemistry, producing specialty material solutions used across most major industries and consumer applications. Our businesses use our chemistry, technology and commercial expertise to create value for our customers, employees and shareholders. We are committed to sustainability by responsibly managing the materials we create for their entire lifecycle and are growing our portfolio of sustainable products to meet increasing customer and societal demand. We strive to make a positive impact in our communities and to foster inclusivity across our teams. Celanese is a Fortune 500 company that employs approximately 12,400 employees worldwide with 2023 net sales of \$10.9 billion.

产品范围 / Topics:

被动元件 Passive Components

产品介绍 / Products Description:

0FxA 无铅电阻浆料: Micromax™ 电子浆料于 2016 年推出了应用于无铅 (Pb<100ppm) 片式电阻器的浆料系列 0FxA, 通过突破性技术去除了导电相和玻璃相中的铅, 以支持“更环保”的电子设备需求。

PTC 系列材料是一种基于石墨烯和热敏介质的新型树脂材料。它具有正温度系数电阻率和自调节性能以及石墨烯的高红外加热效率, 同时还具有加热速度快、耐高电压、安全稳定等特点。目前 Micromax™ 已与国内领先的热管理系统供应商东莞硅翔合作开发锂电池加热膜, 广泛应用于电动汽车动力电池系统。



0FxA Pb-free R Paste: Micromax™ Electronic Inks and Pastes launched a lead free (Pb<100ppm) resistor series, 0FxA, in 2016 to support the needs of “greener” electronic devices by the breakthrough of eliminating Pb in conductive and glass frits which works as a key substance in the existing 00X1Z&00XX series.

PTC material is a novel material prepared from graphene and heat sensitive medium which provides positive temperature coefficient (PTC), self-regulation performance, high heating efficiency, fast heating speed, high voltage resistance, safety and stability. Micromax® has cooperated with Dongguan Silica who is a leading thermal management system supplier, to develop lithium battery PTC heating film which is widely used in electric vehicle power battery systems.

展位号 / Booth No: G04

CeramTec

CeramTec GmbH



地址 / Add: 中国苏州工业园区钟南街 428 号

428 Zhongnan Street, Suzhou Industrial Park, 215026, People's Republic of China

电话 / Tel: +86 512 62740788-506

邮箱 / E-mail: myceramtec@ceramtec.de

网址 / Web: <https://www.ceramtec-group.cn/zh/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 汽车工程 Automotive, 风能 Wind Energy

公司简介 / Company Profile:

CeramTec - 陶瓷专家

我们是谁, 我们做什么

全球员工超过 3,800 人

2022 年营业额超过 8.1 亿欧元

在欧洲、美国和亚洲拥有 17 个生产基地

我们的专家生产 10,000 多种产品和部件

100 多种材料帮助我们实现迷人的应用

CeramTec 成立于 1903 年, 原名为 "Thomaswerke"。

关于我们

各种应用的基础是高性能陶瓷, 也称为技术陶瓷、工程陶瓷或工业陶瓷。这些术语涵盖了大量不同的、有时是高度专业化的陶瓷材料, 它们具有独特的机械、电气、热和生物化学特性以及各种特性的组合。

作为生产商和供应商, CeramTec 的高性能陶瓷被广泛应用于移动和电动交通、电气工程和电子、仪器、机械和设备工程、医疗技术、机械加工技术和许多其他应用领域。CeramTec 公司陶瓷专家和专业人员的核心竞争力是正确选择所需的陶瓷材料, 根据应用领域的相关要求调整和调整高性能陶瓷, 以及陶瓷兼容、优化设计和制造零部件。

CeramTec - The ceramics experts

Who we are and what we do

3,800+ employees worldwide

810+ million € turnover in 2022

17 production sites in Europe, USA and Asia

10,000+ products and components are manufactured by our experts

100+ materials help us to realize fascinating applications

CeramTec was founded in 1903 under the name "Thomaswerke"

About us

The basis for this variety of applications is high-performance ceramics, also known as technical ceramics, engineering ceramics or industrial ceramics. These terms cover a large number of different, sometimes highly specialized ceramic materials with unique mechanical, electrical, thermal and biological-chemical properties and combinations of properties.

High-performance ceramics from CeramTec as a manufacturer and supplier are used in mobility & e-mobility, in electrical engineering & electronics, in apparatus, mechanical and plant engineering, in medical technology, in machining technology and many other applications. The core competencies of the ceramics experts and specialists at CeramTec are the correct selection of the ceramic material required for this, the adjustment and adaptation of the high-performance ceramics to the respective requirements in the area of application and the ceramic-compatible, optimum design and manufacture of parts and components.

产品范围 / Topics:

被动元件 Passive Components, 散热管理 Thermal Management

产品介绍 / Products Description:

1. 陶瓷基板: CeramTec 是所有常见陶瓷基板的一站式商店, 从单一来源提供所有产品: 氧化铝、氮化铝、二氧化锆和氮化硅。

氮化铝基板

- 高导热性
- 热膨胀系数 (CTE) 与硅非常相似

由二氧化锆硬化氧化铝制成的基板

- 抗弯强度提高
- 提高断裂韧性

氮化铝基板

- 高导热性
- CTE 非常接近硅

氮化硅基板 - 2024 年市场启动

- 抗弯强度高
- 断裂韧性高
- 良好的导热性

2. CeramCool® 陶瓷散热器

由氧化铝和氮化铝制成的高导热 CeramCool® 陶瓷散热器为高性能电子产品、电动汽车、光伏、LED 及其他应用的热管理提供了多种可能性。

CeramCool® 散热器是电路板和散热器的有效组合，可为热敏元件和电路提供可靠的冷却。

我们的散热片在广泛的热管理任务中具有许多共同点：它们具有高电气绝缘性、耐化学性和耐腐蚀性。所需散热器的设计和冷却能力取决于位置和要求。

3. 用于无源元件的陶瓷与有源元件一起构成了快速发展的电子世界的基础。它们完成设备供电或信号传输等基本任务，并最终形成电气和电子电路。

技术陶瓷作为无源元件的材料，因其出色的性能而令人印象深刻。尤其值得注意的是，技术陶瓷可以实现几乎百分之百的无孔隙表面。技术陶瓷还具有出色的电子绝缘性能、高强度和导热性。

我们用于无源元件的陶瓷芯具有最大的回弹性和抗弯强度。

1. Ceramic substrates: CeramTec is your One Stop Shop for all common ceramic substrates and offers everything from a single source: Aluminum Oxide, Aluminum Nitride, Zirconia Toughened Alumina and Silicon Nitride.

Aluminum Nitride substrates

- High thermal conductivity
- CTE (Coefficient for Thermal Expansion) very close to silicon

Zirconia Toughened Alumina substrates

- Improved flexural strength
- Increased fracture toughness

Aluminum Nitride substrates

- High thermal conductivity
- CTE is very close to silicon

Silicon Nitride substrate - Launch 2024

- High flexural strength
- High fracture toughness
- Good thermal conductivity

2. CeramCool® ceramic heat sinks

Highly thermally conductive CeramCool® ceramic heat sinks made of aluminum oxide and aluminum nitride offer numerous possibilities in the thermal management of high-performance electronics, e-mobility, photovoltaics, LEDs and other applications.

CeramCool® heat sinks are an efficient combination of circuit board and heat sink for the reliable cooling of thermally sensitive components and circuits.

Our heat sinks have a lot in common for a wide range of thermal management tasks: they impress with high electrical insulation, chemical resistance and corrosion resistance. The design and cooling capacity of the required heat sink are determined by the location and requirements profile.

3. Ceramics for passive components, together with active components, form the foundation of the fast-paced world of electronics. They fulfill elementary tasks such as the power supply of a device or the transmission of signals and ultimately form electrical and electronic circuits.

Technical ceramics impress as a material for passive components thanks to their outstanding properties. Particularly noteworthy in this context is the possibility of realizing almost one hundred percent pore-free surfaces. Technical ceramics are also characterized by their excellent electronic insulating properties, high strength and thermal conductivity.

Our ceramic cores for passive components are characterized by maximum resilience and flexural strength.



展位号 / Booth No: H23

森根科技 (苏州) 有限公司

Cergen Technology (Suzhou) Co., Ltd.

CERGEN

地址 / Add: 江苏省苏州市吴江区友谊工业园区鑫康路 83 号

邮箱 / E-mail: nana.liu@cergen.de

网址 / Web: https://cergen.de

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 计算电子 Computing Electronics, 风能 Wind Energy

公司简介 / Company Profile:

森根科技在德国成立于 2013 年, 是全球领先的纳米晶软磁磁芯和部件解决方案提供商, 并于 2017 年成立苏州森根。森根科技的核心人员来自德国领先的纳米晶产品厂家, 掌握全部关键技术。提供纳米晶磁芯设计生产、组件设计生产、产品 EMC 评估等多种产品和服务, 向客户提供最高质量和最佳性价比的产品。

产品范围 / Topics:

被动元件 Passive Components

森根科技 (苏州) 有限公司

森根科技在德国成立于 2013 年, 是全球领先的纳米晶软磁磁芯和部件解决方案提供商, 并于 2017 年成立苏州森根。森根科技的核心人员来自德国领先的纳米晶产品厂家, 掌握全部关键技术。提供纳米晶磁芯设计生产、组件设计生产、产品 EMC 评估等多种产品和服务, 向客户提供最高质量和最佳性价比的产品。

www.cergen.de

CERGEN

● 纳米晶磁芯

由纳米材料制成的超微晶磁芯具有高磁导率和高频率下的低损耗, 磁芯有着非常广泛的应用:

- ◆ 直接使用或制作共模电感 ◆ 降低电机轴承电流
- ◆ 高功率开关电源和功率推挽变压器 ◆ 高精度电流传感器
- ◆ DI/DT 尖峰脉冲限制

● 铁氧体磁芯

铁氧体产品广泛用于抗 EMI 干扰, 性能卓越、稳定可靠性高, 包括各种用于 EMI/EMC 的闭合磁环、扣式磁环、磁珠、绕线磁环等产品。

应用领域涉及工业控制、计算机、IT 设备、网络设备、轨道交通、新能源、机械及自动化等行业。

● 滤波器

我司专业设计和生产各种类型的滤波器, 广泛应用于电动汽车、轨道交通、医疗器械、激光等行业, 协助客户解决各类 EMC 问题。可以为客户提供定制化产品, 最大限度利用有限空间, 提供高性能的滤波产品。

● 绕线电感

共模扼流圈使用 EMC-X 纳米晶磁芯与最先进的绕线技术, 能够满足客户最高标准的性能、尺寸、功耗和外观要求。采用“立绕”技术, 绕线采用矩形专用导线, 无需切割铁芯。

● 贴片 EMC 电感

我司贴片电感具有小型化, 高品质, 高能量储存和低电阻等特性。具有平底表面适合表面贴装、优异的端面强度、良好的焊接性、低漏磁、低直流电阻、耐大电流的特点, 产品符合 AEC-Q200 认证, 适合用在汽车电子产品上。



森根科技 (苏州) 有限公司



0512-63331566



sales@cergen.de

展位号 / Booth No: **A23**

长沙升华微电子材料有限公司

CHANGSHA SANEWAY ELECTRONIC MATERIALS CO.,LTD



地址 / Add: 湖南省长沙市宁乡金洲大道 435 号

Changsha Ningxiang High-Tech Zone Jinzhou Road No.435

电话 / Tel: +86-15211072355

邮箱 / E-mail: hujiaoyu@saneway.com

网址 / Web: <https://www.saneway.com/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 航空航天 Aerospace, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

长沙升华微电子材料有限公司专业从事钨铜、钼铜、铜钼铜、铜钼铜铜、金刚石铜等高性能电子封装材料研究、开发、生产、销售，依托中南大学雄厚的技术开发实力，在电子封装材料领域处于国内领先地位。产品广泛用于微波器件、激光器功率外壳、光通信、新能源汽车等领域。

Changsha Saneway Electronic Materials Co., Ltd. located in Ningxiang High-tech Zone, Changsha, Hunan, is a high-tech enterprise dedicated to the research, development, production, sale and service of high-performance electronic packaging materials. It is also one of the university-industry cooperation demonstration bases of Central South University. The company specializes in the development and production of high-performance electronic packaging materials such as tungsten-copper, molybdenum-copper, CMC (Cu/Mo/Cu), CPC (Cu/MoCu/Cu), diamond-copper, etc. The service areas involve microwave RF, optical communication, semiconductor lasers, power semiconductors, etc. With advanced material preparation technology, comprehensive material testing equipment and modern scientific management system, and relying on the strong technological development strength of Central South University, The company has established a leading and well-capitalized production base of electronic packaging materials in China. In the field of electronic packaging materials, the company is at the forefront of the industry and provides solid support for the continuous innovation and development of China's electronics industry.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

钨铜 --DSC spacer

钼铜 --DSC spacer

铜钼铜 --SiC Clip

WCu--DSC spacer

MoCu--DSC spacer

CMC--SiC clip



展位号 / Booth No: D18

常州银河世纪微电子股份有限公司

Changzhou Galaxy Century Microelectronics Co., Ltd.



地址 / Add: 中国江苏省常州市新北区长江北路 19 号

No.19 Changjiang Road, Xinbei District, Changzhou, Jiangsu, China

电话 / Tel: +86-0519-68851818

邮箱 / E-mail: zhoub@gmesemi.cn

网址 / Web: https://www.gmesemi.com/

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

常州银河世纪微电子股份有限公司是一家专注于半导体器件研发、芯片设计与制造、封装测试、销售及服务为一体的国家级专精特新小巨人企业。具备 IDM 模式下的一体化经营能力, 是国内首家成为 AEC 国际汽车电子协会会员的半导体分立器件制造商。公司产品涵盖功率器件芯片、MOSFET、IGBT、SiC 器件、GaN 器件、保护器件、整流器件、小信号器件、光电器件、模拟 IC 等。可为客户提供适用性强、可靠性高的系列产品及技术解决方案, 满足客户一站式采购需求。公司产品广泛应用于汽车电子、能源动力、工业控制、智能家居、网络通信、计算机及周边设备等领域。

Changzhou Galaxy Century Microelectronics Co., Ltd. is a National specialized special new small giant enterprise focusing on semiconductor device Research and Development, Chip design and Manufacturing, Packaging and Testing, Sales and Service. With the integrated management ability under IDM mode, it is the first semiconductor discrete device manufacturer in China to become a member of AEC International Automotive Electronics Association.

The company's products cover Power device chip, MOSFET, IGBT, SiC device, GaN device, Protection device, Rectifier device, Small signal device, Photoelectric device, Analog IC, etc., it can provide customers with a series of products and technical solutions with strong applicability and high reliability to meet customers' one-stop purchasing needs.

The company's products are widely used in Automotive electronics, Energy power, Industrial control, Smart home, Network communication, Computers and peripheral equipment and other fields.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 传感器 Sensors

产品介绍 / Products Description:

IGBT/MOSFETs/ 光电耦合器件



IGBT/MOSFET /opt-coupler

展位号 / Booth No: F56

常州科瑞尔科技有限公司

Changzhou Keruier Technology Co.,Ltd



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邮箱 / E-mail: sales@czkeruier.com

网址 / Web: http://www.czkeruier.com/

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

常州科瑞尔科技有限公司成立于 2014 年, 是一家集研发、制造、销售、服务于一体的科技创新型企业。

主营业务包含 IGBT 和 SiC 模块封装测试设备制造及整线集成, AGV 智能物料输送系统及 MES 系统整合, 视觉检测设备, 设备升级改造、定制开发等服务。

Changzhou Keruier Technology Co., Ltd. was established in 2014, It is a technology innovation oriented enterprise that integrates research and development, manufacturing, sales, and service.

The company is mainly engaged in IGBT, SiC module packaging and testing equipment and whole line integration, AGV intelligent material handling system and MES system integration, visual inspection equipment, equipment customization and other services.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 配置和子系统 Assemblies and Subsystems, 智能运动 Intelligent Motion, 测试和测量 Test & Measurement

产品介绍 / Products Description:

全自动微米级插针机、侧框点胶一体机、高速贴片机

全自动微米级插针机: 可实现插针插入 DBC 针套内的全自动操作插针可通过盘式包装自动上料; 采用 3D 相机, 插针前自动检测针套位置, 完成后可检测插针垂直度、插针高度等参数。

侧框点胶一体机: 外壳进入涂胶工位涂胶, 涂胶后进行装配, 随后进入压铆工位, 压入铆钉; 不需要铆接的产品可直接流入收料工序; 涂胶工序采用视觉定位, 可保证涂胶精度。

高速贴片机: 高速大理石双驱龙门架, 实现高稳定, 高灵敏自动贴装; 三轴磁悬浮电机 & 光栅尺, 高精度、长寿命、低磨损; 高速 ZR 六合一贴装头, 实现晶圆、锡焊片、电子器件、标签、玻璃等混合贴装; 支持 MES 系统, 助力企业管理升级。

Automatic Pin Inserting, Housing Assembly, High-speed mounter

Automatic Pin Inserting:

Fully automatic operation for inserting pins into DBC needle sleeves. The pin can be automatically loaded through disc packaging.

Using a 3D camera, the position of the needle sleeve is automatically detected before inserting the needle. After completion, parameters such as the verticality and height of the needle can be detected.

Housing Assembly:

The shell enters the gluing station for gluing, and after gluing, it is assembled. Then enter the riveting station and press in the rivets.

Products that do not require riveting can directly flow into the receiving process, and the gluing process adopts visual positioning to ensure gluing accuracy.

High-speed mounter:

High speed marble dual drive gantry, achieving high stability and high sensitivity for motion mounting.

Three axis magnetic levitation motor with grating ruler, high precision, long service life, and low wear.

Support MES system to assist in enterprise management upgrades.



展位号 / Booth No: F22

成都观岩科技有限公司

Chengdu Neorock Technology Co., Ltd.



地址 / Add: 四川省成都市武侯区武科西一路 65 号 D 栋 901

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邮箱 / E-mail: sales@neorock.cn

网址 / Web: https://www.neorock.cn/

产品应用范围 / Scope of Applications:

工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电力供应 Power Supply, 通信 Communications, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

成都观岩科技有限公司是一家技术驱动型企业, 公司聚焦功率驱动、光通信两大方向, 提供信号链、隔离、功率驱动、电源管理等丰富的半导体产品及解决方案, 产品可广泛应用于电网自动化、工业控制、光通讯及消费电子领域。

基于强大的研发、制造能力, 我们还可为客户提供多种光电芯片及器件定制方案, 为客户提供专业建议和全方位的服务。

Chengdu Neorock Technology Co., Ltd. is a technology driven enterprise that focuses on two major directions: power drive and optical communication. The company provides a wide range of semiconductor products and solutions, including signal chain, isolation, power drive, and power management. These products can be widely used in the fields of power grid automation, industrial control, optical communication, and consumer electronics.

Based on our strong R&D and manufacturing capabilities, we can also provide customers with various customized solutions for optoelectronic chips and devices, offering professional advice and comprehensive services.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1、光纤通信收发模块: 观岩科技的光纤通信收发模块具有很长的链路传输能力, 采用塑料光纤或多模光纤进行传输, 可有效屏蔽电磁干扰并进行长距离传输。可用于构建高性能以太网, 应用在高速列车、新能源、电力电子、工业控制等领域。

2、光耦芯片: 观岩科技的光耦芯片可用于从电源和电机控制电路到数据通信和数字逻辑接口电路的一系列隔离应用, 提供了电绝缘和信号隔离, 消除了由串扰、电源故障和电干扰引起的电噪声的影响。



1、Fiber optic communication transceiver Components: These components of Neorock have a longlink transmission capability, the use of multi-mode optical fiber transmission, can effectively shield electromagnetic interference and long-distance transmission. These modules can be used to build high-performance Ethernet networks for applications in high-speed trains, new energy, power electronics, industrial control and other fields.

2、Optocoupler Chips: The optocoupler chips of Neorock can be used for a series of isolation applications from power and motor control circuits to data communication and digital logic interface circuits, providing electrical insulation and signal isolation, eliminating the impact of electrical noise caused by crosstalk, power failure, and electrical interference.

展位号 / Booth No: F10

成都森未科技有限公司

Chengdu Semi-Future Technology Co., Ltd

SEMI-FUTURE
森 未 科 技

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No. 2808, Xiyuan Avenue, Hi-tech Development (West), Chengdu

电话 / Tel: +

邮箱 / E-mail: service@fusemi.cn

网址 / Web: http://www.fusemi.cn

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 风能 Wind Energy

公司简介 / Company Profile:

成都森未科技有限公司 (以下简称“森未科技”) 成立于 2017 年 7 月, 被认定为国家高新技术企业、国家专精特新“小巨人”企业、成都市集成电路设计企业、成都市高新区瞪羚企业、成都市企业技术中心、成都市新经济双百企业, 致力于先进 IGBT 芯片的国产化。

森未科技创始团队由清华大学和中国科学院的博士组成, 长期专注于功率半导体器件研发, 深耕 IGBT 芯片技术和产业化逾 10 年, 累计取得相关技术专利 40 多项, 成功开发不同电压等级和应用场景的芯片超过 100 款, 是国内 IGBT 产品线覆盖最广的功率半导体公司之一。森未科技的芯片产品全面采用自主设计的沟槽栅 + 场截止技术, 并已应用于工业变频、特种电源、感应加热、新能源发电以及新能源车等多个市场领域。

Founded in July 2017, Chengdu Semi-Future Technology Co., Ltd. (hereinafter referred to as "Semi-Future Technology") has been recognized as a Young Eagle Enterprise (innovative enterprise) of Chengdu Hi-tech Zone, Chengdu Integrated Circuit Design Enterprise, and National High-tech Enterprise, focusing on the localization of advanced power semiconductor devices.

The core technology team of Semi-Future Technology is composed of doctors from Tsinghua University and Chinese Academy of Sciences. We have been focusing on the research and development of power semiconductor devices for a long time, and deeply engaged in the technology and industrialization of IGBT chips for over 10 years. We have obtained (including the number of patents under registration) more than 40 patents on related technologies and successfully developed over 100 chips of different voltage levels and application scenarios, making Semi-Future Technology become one of the IGBT power semiconductor companies with the broadest product line coverage in China. Our chip products fully adopt trench + field-stop technology and have been applied in many market areas such as industrial inverter, special power supply, induction heating, new energy power generation and new energy vehicles.

产品范围 / Topics:

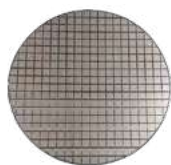
功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

IGBT 芯片: 森未科技 IGBT 芯片, 在正面设计上采用 MPT 技术, 在背面工艺上采用 Taiko 减薄和 H-IMP。正面设计搭配背面工艺, 针对不同应用工况和应用场景, 采用多维一体化设计, 综合权衡导通损耗、开关损耗、短路能力、开关应力、可靠性等各项参数指标。从设计研发到生产加工, 再到测试检验, 每个环节严谨求精、注重品质, 芯片技术不断地更新迭代, 产品系列不断地丰富完善。

IGBT 模块: 森未科技提供 650V-1700V 的 IGBT 模块产品, 兼容市场主流封装。通过采用先进的 Trench-FS 技术, 根据不同行业应用特点, 在导通压降和关断损耗之间做出最优权衡设计, 为客户提供高效产品方案。特别是集中式储能电站, 电能质量及工业控制领域, 优化了 Vcesat 和开关损耗, 增加了抵御特殊环境的能力, 增加了可靠性, 满足客户对效率和特殊环境工况的要求。

IGBT 单管: 森未科技提供 650V-1200V 的 IGBT 单管产品。通过采用 MPT 技术和 Taiko 减薄工艺, 具有高电流密度和低开关损耗的特性, 广泛应用于储能, 光伏, OBC, 充电桩等行业。



IGBT chip: Senwei Technology IGBT chip adopts MPT technology in the front design and Taiko thinning and H-IMP in the back process. The front design is matched with the back process, and a multidimensional integrated design is adopted for different application conditions and scenarios, comprehensively weighing various parameter indicators such as conduction loss, switch loss, short-circuit capability, switch stress, and reliability. From design and development to production and processing, and then to testing and inspection, every step is rigorous and focused on quality. Chip technology is constantly updated and iterated, and product lines are constantly enriched and improved.

IGBT module: Senwei Technology provides IGBT module products with 650V-1700V, compatible with mainstream packaging in the market. By adopting advanced Trench FS technology and considering the application characteristics of different industries, an optimal balance design is made between conduction voltage drop and turn off loss to provide customers with efficient product solutions. Especially in the field of centralized energy storage stations, power quality and industrial control, V_{cesat} and switch losses have been optimized, the ability to withstand special environments has been increased, reliability has been enhanced, and customer requirements for efficiency and special environmental conditions have been met.

IGBT Discrete: Senwei Technology provides IGBT Discrete products ranging from 650V to 1200V. By adopting MPT technology and Taiko thinning process, it has the characteristics of high current density and low switching loss, and is widely used in industries such as energy storage, photovoltaics, OBC, charging piles, etc.

展位号 / Booth No: D44

诚联恺达科技有限公司

Chenglian Kaida Technology Co., Ltd



诚联恺达科技有限公司
Chenglian Kaida Technology Co., Ltd

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产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 光伏 Solar Energy, 汽车工程 Automotive

公司简介 / Company Profile:

诚联恺达始创于 2007 年, 拥有以中科院为背景的专业研发团队及强大的技术服务团队, 目前已在全国多地设立分公司、生产基地及办事处; 诚联恺达公司多年专注于半导体器件封装线的设计与开发, 并坚持自主创新。现专门成立联合研发中心, 与沈阳中科院、北京理工大学、清华紫光精密、西安交通大学、华中科技大学、南京大学等高校成立联合研发中心及研究院, 共同致力于功率器件、半导体电子器件封装及封装材料的研究与发展。

Chenglian Kaida was founded in 2007. It possesses a professional research and development team with a background from the Chinese Academy of Sciences (CAS) and a strong technical service team. Currently, it has established branches, production bases, and offices in many regions across the country. Chenglian Kaida has been focusing on the design and development of semiconductor device packaging lines for many years, persisting in independent innovation. It has now established a joint research and development center, along with CAS Shenyang, Beijing Institute of Technology, Tsinghua Unigroup, Xi'an Jiaotong University, Huazhong University of Science and Technology, Nanjing University, and other universities, dedicated to the research and development of power devices, semiconductor electronic device packaging, and packaging materials.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 开发软件 Development Software

产品介绍 / Products Description:

(1) KD-V300

·3 个独立的真空腔

·托盘尺寸: (280*190mm)*2

·可自动连接 IGBT 贴装设备

·氮气系统、甲酸系统

·空腔率小于 3%

·极限真空: 10Pa

·预制焊料 / 焊膏

·IGBT 功率器件、功率半导体、汽车电子元件、PCB 和 BGA、传感器、MEMS 器件、芯片粘接、大功率 LED、混合组装、倒装芯片、封装密封等。



(2) KD-V43

·视频采集监控分析系统

·甲酸 + 氮气, 还原保护气体

·焊接面积: 300*400mm

·极限真空度: 5*10-4Pa

·应用领域: IGBT 功率器件、光伏器件、汽车电子器件组装、MMIC 混合电路封装、微波模块、气密管壳封焊、MEMS 器件、大功率 LED 等



(1) KD-V300

·3-independently vacuum chambers

·Tray size:(280*190mm)*2

·Can automatically connected with IGBT pick and place equipment

·N2/HCOOH/Forming gas

·Void rate less than 3%

·Ultimate vacuum:10Pa

·Preform solders/Soldering pastes

·IGBT Power device, Power semiconductors, Automotive electronic components, PCB and BGA, Sensors, MEMS Device, Die attachment, High power LED, Hybrid assembly, Flip chip, Package sealing, etc.

(2) KD-V43

·Video monitoring and analysis system

·N2/HCOOH /Forming gas

·Soldering size: 300*400mm

·Ultimate vacuum: 5*10-4Pa

·Application fields: IGBT power devices, photovoltaic devices, automotive electronic device assembly, MMIC hybrid circuit packaging, microwave modules, hermetic package sealing for tubes, MEMS devices, high-power, etc.

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展位号 / Booth No: F50**志豪微电子 (惠州) 有限公司****CHIPHOW MICROELECTRONICS(HUIZHOU)CO.,LTD**

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地址 / Add: 广东省惠州市仲恺高新区仲恺大道航天科技工业园四号楼

Block 4, No.252 Zhongkai Road, Zhongkai High-Tech District, Huizhou, Guangdong

电话 / Tel: 86-752-2609331

邮箱 / E-mail: xiao.huang@chmicro.com

网址 / Web: Http://www.chmicro.com

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 电力供应 Power Supply, 电机工程 Electrical Engineering, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

志豪微电子 (惠州) 有限公司隶属于香港早期的上市公司中国航天国际控股有限公司 (HK00031); 2022 年 5 月 24 日在广东惠州仲恺高新区成立, 前身是控股集团 2020 年在康惠 (惠州) 半导体有限公司成立的 IPM 封装研发中心, 公司将致力于为国内、外客户提供优质的 IPM、IGBT 等功率模块封装代工业务。

Chiphow Microelectronics (Huizhou) Co., Ltd. was established in Zhongkai High-Tech Zone, Huizhou, Guangdong on May 17, 2022, with a registered capital of RMB 90 million, belonging to China Aerospace International Holdings Ltd. (00031.HK), an early listed company in Hong Kong. The predecessor is the IPM capsulation R & D center invested by the group in 2020 in Conhui (huizhou) Semiconductor Co., Ltd..

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

DIP29 封装类型, 采用了高绝缘、易导热的 DBC 作为功率器件承载基板; 高可靠性, 高灵活度的 PCB 作为驱动 IC 承载基板; 通过铜框架将相应的电气引脚引出, 提供了非常紧凑的封装体, 使用非常方便, 特别适合要求紧凑安装的应用场合。

DIP25 封装类型, 采用了高绝缘、易导热的 DBC 作为功率器件承载基板; 高可靠性的铜框架做为驱动 IC 承载基板; 通过同框架将相应的电气引脚引出, 并且可选的功率侧温度检测引脚, 能够更加精准的检测模块温度。封装结构紧凑, 使用非常方便, 特别适合要求紧凑安装的应用场合。

SDIP26 封装采用了高绝缘、易导热的 DBC 作为功率器件承载基板, 高可靠性的铜框架做为驱动 IC 承载基板, 优异的散热性能适合更大功率的应用场景。

SDIP26FP 封装内部全部采用铜框架作为承载, 外壳塑料全包封, 用于功率稍小的场景, 但是更具有成本优势。



DIP29 packaging structure adopts DBC ceramic substrate, which has the characteristics of high insulation and high thermal conductivity. Drive IC adopts PCB as the carrier substrate, which has flexible design. The internal circuit is led out through the lead frame, which is especially suitable for applications requiring compact installation.

DIP25 packaging structure adopts DBC ceramic substrate, which has the characteristics of high insulation and high thermal conductivity; use high reliability lead frame as driver IC carrier substrate, temperature monitoring can be achieved through IC integration or NTC bonding on DBC substrate. The package is compact, especially be used for applications which requires compact installation.

SDIP26 packaging uses DBC as the power chip carrier, which can provide excellent heat dissipation performance.

SDIP26FP packaging uses lead frame as the carrier of power chip, which has low packaging cost.

展位号 / Booth No: G66

芯朋微电子

Chipown Microelectronics Co., Ltd.



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邮箱 / E-mail: sales-xp@chipown.com.cn

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产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 通信 Communications, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

芯朋微电子 (Chipown) 是一家专注于功率半导体研发的高科技企业, 公司成立于 2005 年, 总部位于江苏无锡, 并在苏州、上海、深圳、中山、珠海、厦门、青岛设有研发中心和客户支持机构。主要产品线包括模拟 / 数字架构的 AC-DC、DC-DC、Driver IC 及 Power Discretes 等, 广泛应用于家电、充电 & 适配器、智能电网、通信、服务器、光储充、工业电机、工控设备、汽车等领域。目前, 公司为众多行业的 TOP 企业提供从高压电源芯片到低压电源芯片、从模拟电源芯片到数字电源芯片、从功率控制芯片到功率分立器件的“PowerSemi Total Solution”, 年出货超十亿颗芯片, 建立了被数千家客户信赖的品牌优势。公司是上交所科创板的第一家高压电源芯片设计企业, 股票简称: 芯朋微, 股票代码: 688508。

Chipown Micro-electronics limited (Chipown) is a high-tech company focusing on power semiconductor research and development. Founded in 2005, Chipown is headquartered in Jiangsu Wuxi, and has R&D centers and customer support institutions in Suzhou, Shanghai, Shenzhen, Zhongshan, Zhuhai, Xiamen and Qingdao. The main product lines include AC-DC, DC-DC, Driver IC and Power Discretes of Analog/Digital Architecture. It provides “PowerSemi Total Solution” for TOP companies in many industries such as home appliances, charging & adapters, smart grids, communications, servers, optical storage and charging, industrial motors, industrial control equipment, automobiles and other fields. It shipped more than 1 billion chips annually and established brand advantage trusted by thousands of customers. Chipown is the first high-voltage power supply chip design company of the Shanghai Stock Exchange Science and Technology Innovation Board, the stock abbreviation is Xinpengwei, the stock code is 688508.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

公司拥有 AC-DC、DC-DC、Driver、Digital PMIC、Power Device、Power Module 六大产品线。

公司具有国内领先的研发实力, 特别在高压集成半导体技术方面更是拥有业内领先的研发团队。公司在国内创先开发成功并量产了 700V 单片高低压集成开关电源芯片、1500V/1700V 高低压集成开关电源芯片、零瓦待机高压集成开关电源芯片、1200V 半桥驱动芯片、200V SOI MOS/LIG BT 集成驱动芯片、100V CMOS/LDMOS 集成驱动芯片等产品, 均获得国家 / 省部级科技奖励和国家重点新产品认定。



Chipown has six product lines: AC-DC, DC-DC, Driver, Digital PMIC, Power Device and Power Module.

Chipown has the advanced research & development capability with industry's firstclass RD team in high voltage IC technology particularly. The company pioneered successful development and mass-produced 700V single high-low voltage integrated switching power supply chips, 1500V/1700V high-low voltage integrated switching power supply chips, zero-watt standby high-low voltage integrated switching power supply chips, 1200V half-bridged driver chips, 200V SOI MOS/LIG BT integrated driver chips, 100V CMOS/LDMOS integrated driver chips and other products, all of them have been recognized by national/provincial science and technology awards and national key new products.

展位号 / Booth No: F80

焜芯微电子技术 (苏州) 有限公司

CHIXIN MICROELECTRONICS TECHNOLOGY (SUZHOU) CO., LTD



地址 / Add: 江苏省苏州市苏州工业园区浦田路 75 号纳米城五区 17 号楼 1-2 层

1-2Floors, Building 17, District 5, Nano City, No. 75 Putian Road, Suzhou Industrial Park, Suzhou City, Jiangsu Province, China

电话 / Tel: +86 17826265009

邮箱 / E-mail: wangt@chixmt.com

网址 / Web: http://www.chixmt.com

产品应用范围 / Scope of Applications:

电动汽车 E-mobility

公司简介 / Company Profile:

焜芯微电子技术 (苏州) 有限公司专注大功率塑封模块封装测试, 提供功率模块设计到制造的整体封装解决方案。公司核心团队具有 20 年以上功率, 射频和先进封装经验, 主要来自仙童 Fairchild, 通富 TFME 和长电 JCET 等国内外头部企业的研发和工艺部门, 曾于 2003 年和 2005 年为 TO 分立器件和 IPM 系列的工艺开发和量产做出积极贡献。现公司已经具备 DSC/SSC, T-pak, DCM, SMIT 等系列大功率模块封装开发和量产能力, 同时在互连 (焊片, 锡膏, 烧结, Clip, 键合) 工艺, 可靠性标准研究, 设计方法 (EDA), 材料设备国产化能力开发等方面深耕, 为功率半导体封装提供基础和深层次加工平台。

Chixin Microelectronics Technology (Suzhou) Co., Ltd. focuses on high-power molding module packaging, providing the overall packaging solution from power module design to manufacturing. The core team of the company has more than 20 years of power, RF and advanced packaging experience, mainly from the R & D and process departments of domestic and foreign leading company such as Fairchild, TFME and JCET, and made great contributions to the process development and mass production of TO discrete devices and IPM series in 2003 and 2005. Now the company has DSC / SSC, T-pak, DCM, SMIT series high power module encapsulation development and production capacity, at the same time, interconnected (Solder paste and plate, sintering, Clip attach, Wire bonding) process, reliability standard research, design method (EDA), material equipment localization ability development. To provide basis for power semiconductor packaging and deep processing platform.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1.DSC (Dual-Sided Cooling) 双面散热塑封功率模块, 相对于传统单面散热模块, 具有更低热阻、更高出流能力, 小型轻量化尺寸设计更能满足超高功率密度、散热快的系统应用需求。

- ◆ 混合动力汽车 (HEV) 和电动汽车 (EV) 驱动逆变器, 为车辆提供扭矩和加速能力
- ◆ 大功率 DC/DC 变换器

2.SSC (Single-Sided Cooling) 单面散热塑封功率模块, 针对 IGBT 及 SIC 模块采用不同材料组合和封装技术, 通过仿真及试验优化, 获得优化的热和电气性能以及更高可靠性。

- ◆ 混合动力汽车 (HEV) 和电动汽车 (EV) 驱动逆变器, 为车辆提供扭矩和加速能力
- ◆ 大功率 DC/DC 变换器

3.TPAK, 单开关模块。突破了单管封装带来的输出电流、输出功率、寄生电感等限制, 又保留了多管并联的灵活性。可以根据不同的逆变器功率输出需求, 来选择需要多少个 TPAK 模块并联。

- ◆ 电机驱动逆变器



1.DSC (Dual-Sided Cooling) double-sided plastic sealing power module, compared with the traditional single-sided cooling module, has lower thermal resistance, higher flow capacity, small lightweight size design can better meet the needs of ultra-high power density and fast heat dissipation system application.

- ◆ Hybrid electric vehicles (HEV) and electric vehicles (EV) drive inverters that provide torque and acceleration capabilities to the vehicle
- ◆ High power DC/DC converter

2.SSC (Single-Sided Cooling) single-sided plastic sealing power module, for IGBT and SIC module using different material combination and packaging technology, through simulation and test optimization, to obtain optimized thermal and electrical performance and higher reliability.

- ◆ Hybrid electric vehicles (HEV) and electric vehicles (EV) drive inverters that provide torque and acceleration capabilities to the vehicle
- ◆ High power DC/DC converter

3.TPAK, single switch module. It breaks through the limitations of output current, output power and parasitic inductance brought by single tube package, and retains the flexibility of multi-tube parallel operation. You can choose how many TPAK modules are needed in parallel according to different inverter power output requirements.

- ◆ Motor drives inverter

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展位号 / Booth No: G55**国仪量子技术（合肥）股份有限公司**
CIQTEK Co., Ltd.
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地址 / Add: 合肥市高新区创新大道 2800 号创新产业园二期 E2 楼 A 区 1-4 层

E2 Building, Innovation Industrial Park II, High-tech District, Hefei, Anhui China

邮箱 / E-mail: gylz@ciqtek.com

网址 / Web: <https://www.ciqtek.com/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

国仪量子的核心技术是以量子精密测量为代表的先进测量技术, 为全球范围内企业、政府、研究机构提供以增强型量子传感器为代表的核心关键器件、用于分析测试的科学仪器设备、赋能行业应用的核心技术解决方案等优质的产品和服务。

公司源于具有国际知名度的中国科学技术大学, 实验室在高端科学仪器、关键核心器件的研制领域深耕十余年, 多项技术、研究成果突破国际封锁和禁运, 并获得“中国科学十大进展”“国家自然科学二等奖”“中国分析测试协会科学技术奖特等奖”等诸多奖项。

公司传承实验室的创新基因与探索精神, 为全世界的科技工作者提供探知微观世界的一把尺子, 获得“2021 年安徽省科学技术奖一等奖”“朱良漪分析仪器创新奖”“安徽省新型研发机构”“安徽省量子精密测量创新中心”“安徽省专精特新冠军企业”等奖项。

公司面向量子科技、材料科学、化学化工、生物医学、工业领域、科学教育、能源勘探等领域, 致力于帮助客户更高效地推动技术的发展, 探索并创造人类的未来。

CIQTEK's high-precision instruments help scientists explore materials and physical properties at the microscopic level.

CIQTEK meets the needs of its customers by providing customized products and complete application solutions in the areas of environmental science, biochemistry, chip semiconductors, and materials science, enabling customers to innovate and increase productivity.

The main business includes Scanning Electron Microscopes (SEMs), Electron Paramagnetic Resonance (Electron Spin Resonance) Spectroscopy, Scanning NV Probe Microscopes, and BET Surface Area & Pore Analyzers.

CIQTEK currently has over 700 employees, including 70% of the R&D team. A total of 12 application centers provide customers with sample testing, experimental comparison, performance evaluation, application direction development, and advanced training on product operation.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 传感器 Sensors

产品介绍 / Products Description:

扫描电子显微镜 5000X、聚焦离子束双束电镜 DB500

Ultra-high Res. FESEM Field Emission Scanning Electron Microscope | SEM5000X
FIBSEM Focused Ion Beam Scanning Electron Microscope | DB500

展位号 / Booth No: E78

香港城市大学

City University of Hong Kong



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网址 / Web: <https://www.ee.cityu.edu.hk/~chjiang>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 轨道交通 Rail + Traction, 电机工程 Electrical Engineering, 汽车工程 Automotive

公司简介 / Company Profile:

香港城市大学（城大）位于香港的中心地带，以创新精神专注于研究及专业教育两大领域，致力为全球议题寻找解决方案，并推动有益社会的转变。目前 QS 世界大学排名第 62 位，泰晤士高等教育 2024 年全球最国际化大学排名第 1 位。

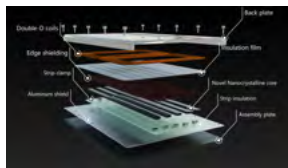
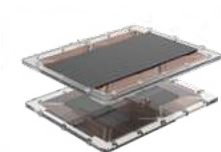
Located in the heart of Hong Kong, City University of Hong Kong (CityUHK) has a well-earned reputation as an innovative hub for research and professional education and for addressing global issues and empowering positive change. CityUHK is ranked #62 in the QS World University Rankings 2025, #1 in [THE] Most International Universities in the World 2024.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 电力供应 Power Supply

产品介绍 / Products Description:

1. 新能源汽车下一代高功率纳米晶无线充电装置;



2. 数据中心板载电源 DC-DC 模块;

3. 自动导引车动态无线供电系统;

1. Next generation high power nanocrystalline wireless EV charger;

2. Compact point of load DC-DC converter for data centre;

3. Dynamic wireless charging system for auto guided vehicle (AGV);

展位号 / Booth No: E52

COSAR



地址 / Add: 182, Pangyoeyeok-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea

邮箱 / E-mail: sjyoo@ksia.or.kr

网址 / Web: <https://www.ksia.or.kr>

产品应用范围 / Scope of Applications:

工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

COSAR founded in 1986 in order to support sustainable and balanced development of Korea's semiconductor industry and promote close relationship with related organizations, becomes the leading trade association having more than 340 member companies in the areas of device, design and equipment in Korea

At this PCIM ASIA 2024 exhibition, four domestic power semiconductor companies participated in the power semiconductor Korean pavilion.

- Participating companies: Sigetronics, QRT, PowerCubeSemi, JMJKorea

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 测试和测量 Test & Measurement

产品介绍 / Products Description:

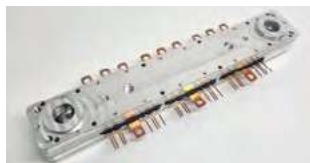
The products of companies participating in the PCIM ASIA 2024 exhibition are as follows.

- JMJKorea : Power Module PKGs

- SIGETRONICS : GaN Power FET

- PowerCubeSemi : SiC MOSFET

- QRT : Semiconductor Testing Service



展位号 / Booth No: D06
中国中车集团有限公司
CRRC Corporation Limited



ZHUZHOU CRRC TIMES SEMICONDUCTOR CO.,LTD. 株洲中车时代半导体有限公司

地址 / Add: 湖南省株洲市石峰区田心工业园
Tianxin Industrial Park, Zhuzhou City, Hunan Province, China
电话 / Tel: +86 73128498124
邮箱 / E-mail: CTSC@csrzc.com
网址 / Web: <https://ctsc.csrzc.com>

产品应用范围 / Scope of Applications:

自动化 Automation, 光伏 Solar Energy, 轨道交通 Rail + Traction, 风能 Wind Energy

公司简介 / Company Profile:

株洲中车时代半导体有限公司是中国中车旗下股份制企业中车时代电气（其前身及母公司一中车株洲电力机车研究所有限公司创立于1959年）的子公司。早从1964年开始功率半导体技术的研发与产业化，2008年战略并购英国丹尼克斯公司，通过十余年持续投入和平台提升，已成为国际少数同时掌握大功率晶闸管、IGCT、IGBT及SiC器件及其组件技术的IDM（集成设计制造）模式企业代表，拥有芯片设计、制造—模块封装—测试—应用完整产业链。公司致力成为轨道交通、输配电、新能源汽车、发电等领域功率半导体器件首选供应商。

Zhuzhou CRRC Times Semiconductor Co., Ltd. is a subsidiary of CRRC Times Electric Co., Ltd., a joint-stock enterprise under CRRC Corporation Limited. The parent company of CRRC Times Electric, CRRC Zhuzhou Institute Co., Ltd., was established in 1959. The company has been dedicated to the research, development, and industrialization of power semiconductor technology since 1964. Following the strategic acquisition of the UK-based Dynex Semiconductor in 2008 and continuous investment in platform development over the past decade, CRRC Times Semiconductor has become one of the few integrated design manufacturers (IDMs) in the world with comprehensive capabilities in high-power thyristors, IGCTs, IGBTs, SiC devices, and modules. It has a complete industrial chain, including chip design, manufacturing, power assembly packaging, testing, and application. CRRC Times Semiconductor strives to become the preferred supplier of power semiconductor devices for applications in rail transportation, power transmission and distribution, new energy vehicles, and power generation.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1. SiC MOSFET 晶圆 (1200V/10mΩ)

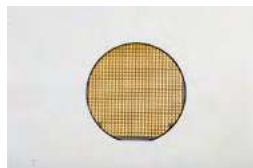
采用中车沟槽栅技术，行业先进的新能源汽车主驱用 SiC MOSFET 芯片

2. 汽车 IGBT 模块 L10 automotive IGBT modules L10

采用中车第7.5代超精细沟槽芯片，低损耗、175°高工作结温、高效率，配合银烧结、DTS、转模塑封等先进封装工艺，具有高可靠性、大容量等特点。

3. TG450NP11U4-S50

采用中车第7.5代超精细沟槽芯片，低损耗、175°高工作结温、高效率，配合银烧结、DTS、转模塑封等先进封装工艺，具有高可靠性、大容量等特点。



展位号 / Booth No: D06
中国中车集团有限公司
CRRC Corporation Limited



中车永济电机有限公司
CRRC Yongji Electric Co., Ltd.

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NO.18 DIANJI ST.YONGJI,SHANXI,CHINA
电话 / Tel: +86-0359-8075162
网址 / Web: <https://www.crccgc.cc/yjdi/>

产品应用范围 / Scope of Applications:
轨道交通 Rail + Traction

公司简介 / Company Profile:

中车永济电机有限公司隶属于中国中车股份有限公司。通过与瑞士 ABB 半导体公司战略合作引进技术，建成国内首条高压 IGBT 产线，并在国家科技部 02 专项《智能电网高压芯片封装与模块技术研发及产业化》的深化积累中，具备了国内领先的高压大功率 IGBT 封测技术、设计制造核心能力以及 IGBT 寿命预测和失效分析能力。产品电流等级覆盖 20A 至 3600A，电压等级覆盖 600V 至 6500V，封装类型为焊接式、塑封式、压接式三种。获取发明专利 40 余项，实用新型专利 10 余项

CRRC Yongji Electric Co., Ltd., a subsidiary of CRRC. Through strategic cooperation with ABB, advanced technology was introduced to establish the first domestic high-voltage IGBT production line. In collaboration with national-level science and technology projects in China, leading expertise in high-voltage high-power IGBT packaging and testing, core design and manufacturing capabilities, as well as IGBT lifetime prediction and failure analysis was accumulated. Product current ratings range from 20A to 3600A, and voltage ratings from 600V to 6500V. The packaging types include soldering, plastic encapsulation, and press-fit. Over 40 invention patents and more than 10 utility model patents have been obtained

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

自主化攻关轨道交通领域 IGBT 器件结构设计及仿真，采用新工艺提升器件封装工艺可靠性，构建轨道交通车辆 IGBT 芯片设计、制造、封装、检测等完整的技术体系，全面实现 IGBT 产品自主化，保障我国轨道交通产业链安全和可持续发展。



展位号 / Booth No: D06
中国中车集团有限公司
CRRC Corporation Limited



宁波中车时代传感技术有限公司
NINGBO CRRC TIMES TRANSDUCER TECHNOLOGY CO.,LTD.

地址 / Add: 浙江省宁波市江北区振甬路 138 号
No. 138, Zhenyong Road, Jiangbei District, Ningbo City, Zhejiang Province
电话 / Tel: +86-0574-87232526
网址 / Web: <https://www.crccgc.cc/nbcgq/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电力供应 Power Supply, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

宁波中车时代传感技术有限公司是中国中车旗下股份制企业中车时代电气 (其前身及母公司一中车株洲电力机车研究所有限公司创立于 1959 年) 的子公司。30 多年来始终致力于以新能源领域和轨道交通领域传感器产业研发制造。建有试验功能齐全、技术先进的机车和动车组牵引与控制国家重点传感器实验室, 并获得中国合格评定国家认可委员会 (CNAS) 认证。主要负责起草并制定多项国际标准、行业标准, 是国内轨道交通行业传感与测量产品首选供应商。

公司是轨道交通装备与新能源发电、储能装备领域电流传感器研发和生产制造领军企业。产品覆盖机车、动车、城轨等各种车型, 轨道交通领域国内同行排名第一。在新能源风电及集中式光伏行业实现国内 TOP10 客户的全覆盖, 分布式光伏传感器为行业 TOP3 厂家的首选供应商。同时公司研发生产的高可靠性、高精度的新能源汽车电流传感器广泛应用于国内外多家车企电驱、电池管理等三大系统。

Ningbo CRRC Times Transducer Technology Co., Ltd. is a subsidiary of CRRC Times Electric Co., Ltd., a joint-stock enterprise under CRRC Corporation Limited. The parent company of CRRC Times Electric, CRRC Zhuzhou Institute Co., Ltd., was established in 1959. For over 30 years, the company has been dedicated to the research and manufacturing of sensors in the new energy and rail transit sectors. The company houses a nationally recognized key sensor laboratory for locomotive and EMU traction and control, certified by the China National Accreditation Service for Conformity Assessment (CNAS). The company has taken the lead in drafting and formulating several international and industry standards, making it the preferred supplier of sensing and measurement products in the domestic rail transit industry.

The company is a leading enterprise in the research, development, and manufacturing of current sensors for rail transit equipment and new energy power generation and storage equipment. Its products cover various types of locomotives, EMUs, and urban rail vehicles, ranking first among domestic peers in the rail transit field. In the new energy wind power and centralized photovoltaic sectors, the company has achieved full coverage of the top 10 domestic customers and is the preferred supplier for the top 3 manufacturers of distributed photovoltaic sensors. Additionally, the company's high-reliability, high-precision current sensors for new energy vehicles are widely used in the electric drive, battery management, and other major systems of numerous domestic and international automakers.

产品范围 / Topics:
传感器 Sensors

产品介绍 / Products Description:

致力于提供“光伏逆变器、风电变流器、储能系统、工业自动化领域电量检测”全套解决方案, 面向组串直流支路、MPPT、漏电流、变桨驱动、并网、变频驱动等全系统应用场景和不同功率等级的应用需求, 具备全面的芯片核心能力;

展位号 / Booth No: H18

舒伦克金属颜料 (上海) 有限公司

CuNex GmbH



地址 / Add: 上海市闵行区新龙路 360 弄万金中心 T2-505 室

Schloßlande 26, 85049 Ingolstadt, Germany

邮箱 / E-mail: stephen.shu@schlenk.com

网址 / Web: <https://www.schlenk.com/markets-products/translate-to-english-power-electronics-cunex/translate-to-english-uebersicht>

产品应用范围 / Scope of Applications:

工业电子 Industrial Electronics, 汽车工程 Automotive

公司简介 / Company Profile:

CuNex(源自于德国 Ingolstadt 大学) 联合 Schlenk 开发的“Cuprum”系列产品是在德国生产的世界上第一款量产的高性能烧结铜浆。Cuprum 可以广泛应用于包括光电领域激光二极管、高功率 LED 的封装、电子电气中的硅及碳化硅等高功率产品及部分电池领域的特殊用途。

CuNex 产品是超过 5 年在铜基互联技术领域探索与深耕的结晶。在拥有 150 年历史耕耘于铜及铜合金行业，提供世界级制造设备和全产业链保障的 SCHLENK 加持下 Cuprum 系列铜浆在芯片焊接和大面积键合上有着业界领先的产品特性。

Under the “Cuprum” series CuNex (a spin-off from Technical University Ingolstadt) and SCHLENK launched the world's first copper sinter paste designed and made in Germany. Cuprum is suitable for a wide range of applications ranging from laser diodes and high power LEDs in optoelectronics packaging, Si and SiC devices for high power electronics and specialized solutions for battery applications.

The product from CuNex is a combination of more than 5 years of extensive research in the field of copper based interconnect technologies, supported by SCHLENK with a rich history of 150 years in working with copper and copper alloys, offering world-class manufacturing facilities and a secure supply chain worldwide. The Cuprum series has class-leading features for die attach and large area bonding

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management

产品介绍 / Products Description:

Cuprum81 芯片烧结铜膏

Cuprum85 大面积烧结铜膏



Cuprum 81 for Dia Attach

Cuprum 85 for Substrate Attach

展位号 / Booth No: D79

清华大学能源互联网研究院直流研究中心

DC Research Center, Energy Internet Research Institute,
Tsinghuasearch Institute, Tsinghua

地址 / Add: 北京市海淀区双清路 77 号双清大厦 3 号楼 7 层

7F, Building 3, Shuangqing Mansion, No. 77 Shuangqing Road, Haidian District, Beijing, China

邮箱 / E-mail: xzhao@tsingsemi.com

网址 / Web: <http://dc.eiri.tsinghua.edu.cn>

产品应用范围 / Scope of Applications:

电力供应 Power Supply, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

中心依托清华大学电机系的优势科研力量, 组建了兼具高水平学术研究能力、前瞻性技术创新能力、实用化产业发展能力的研究团队。围绕高压直流输电、中低压直流配电技术领域, 面向器件、设备和系统三个层面, 开展理论研究、技术攻关和工程建设。中心已初步突破定制化电力电子器件、直流断路器、电压源换流器、电力电子变压器、系统级分析与控制保护等多项直流领域关键技术, 可为电网及相关企业提供从前期规划设计、基础技术研发、技术成果转移到产品工程应用的全方位解决方案。

Relying on the superior scientific research strength of the Department of Electrical Engineering at Tsinghua University, the DC Research Center has established a research team with high-level academic research ability, forward-looking technical innovation capability, and practical industrial development skills. The core mission of the Research Center is to research and develop the key technologies and equipment for DC power transmission and distribution. DC Research Center focuses on the technical fields such as HVDC transmission, and MV/LV DC power distribution and supply. It also engages with theoretical research, technical research and engineering construction at the device, equipment and system levels.

The center has initially broken through a number of key technologies in DC field, such as customized power electronic devices, DC circuit breakers, voltage source converters, power electronic transformers, system-level analysis and design, control and protection, etc., and can provide all-round solutions for power grids and related enterprises from early planning and design, basic technology research and development, and transfer of technical achievements to product engineering applications.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

高压大功率半导体器件 IGBT-Plus, 面向新能源发电和直流电网应用的新一代大功率半导体器件集成门极换流晶闸管 (IGCT) 系列化产品。具有耐压高、电流大、导通损耗低、可靠性高、结构紧凑、制造成本低等优势, 具备黑启动、本征安全的抗爆、失效可靠短路和分体式驱动等功能, 已在珠海、东莞、乌兰察布等多个工程应用, 包括 2500V~8000V、4000A~10000A 的非对称和逆阻型多款产品规格, 支持器件产品定制化、提供应用解决方案。



大容量功率变换技术: 提出基于 IGBT-PLUS 器件的 MMC 换流阀、直流变压器、STATCOM 集成储能、直流耗能装置、风机变流器、抵御换相失败 LCC、制氢电源技术, 可显著提升装备性能、降低损耗和成本, 对以新能源为主体的电力系统具有重要意义, 成果已在多个工程应用。

高中低压系列化直流断路器技术: 首创耦合负压型混合式直流断路器和多端口直流断路器, 研制世界电压电流等级最高、开断能力最强的 535KV/25kA 直流断路器并应用于张北柔直工程, 率先开发出国内外涵盖范围最广、系列化的直流断路器产品 (375V/10KV/100KV/535KV 电压等级、5KA/10KA/25KA/80kA 电流范围), 并实现多种场景的工程应用。

High-voltage high-power semiconductor device IGCT-Plus: is a new generation of Integrated Gate Commutated Thyristor (IGCT) series of products for new energy generation and DC grid applications,, with high withstand voltage, high current, low conduction loss, high reliability, compact structure, low manufacturing costs and other advantages, with a black-start, intrinsically safe anti-explosive, fail-safe short-circuit and split-driver functions, has been applied in Zhuhai, Dongguan, Ulanqab and other engineering applications. IGCT-Plus including 2500V ~ 8000V, 4000A ~ 10000A asymmetric and reverse resistance type product specifications, can support device product customization, provide application solutions.

Large-capacity power conversion technology: IGCT-PLUS device-based MMC, DC transformer, STATCOM integrated energy storage, DC chopper, wind turbine converter, Hybrid Commutated Converter(HCC), hydrogen power technology, can significantly improve equipment performance, reduce losses and costs, the new energy-based power system is of great significance, and the results have been applied in a number of projects.

High-medium- low-voltage series DC circuit breaker technology: invented the first coupled negative-voltage hybrid DC circuit breaker and multi-port DC circuit breaker, developed the world's highest voltage and current level, the strongest breaking capacity of 535KV/25kA DC circuit breakers and applied to Zhangbei flexible project, developed the widest range of domestic and international DC circuit breaker products, series (375V/10KV/100KV/535KV voltage level, 5KA/10KA/25KA/80kA current range) at home and abroad, and realize engineering applications in various scenarios.

展位号 / Booth No: F44

东莞柏狮精密电子有限公司

Dongguan Possehl Electronics Co., Ltd



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网址 / Web: <https://www.possehlelectronics.de/en>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive

公司简介 / Company Profile:

东莞柏狮精密电子有限公司是由德国柏狮集团、柏狮电子股份有限公司共同投资兴建的高新技术企业。公司注册资本 3000 万美元, 占地 33000 平方米。公司是生产半引线框架冲压, 电镀以及后工序成型包装的专业公司, 客户主要为欧美的半导体厂商。

Dongguan Possehl Electronics Co., Ltd is a high-tech enterprise jointly invested by German Possehl Group and Possehl Electronics Co., LTD. The registered capital of the company is 30 million US dollars and covers an area of 33,000 square meters.

The company is a professional company that produces Leadframe Stamping, Plating & Backend finishing, and its customers are mainly semiconductor manufacturers in Europe and America.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 传感器 Sensors, 配置和子系统 Assemblies and Subsystems, 伺服技术 / 执行器 Electrical Drives, 电力供应 Power Supply

产品介绍 / Products Description:

1. QFN 包用于手机和电脑

Possehl Electronics 为半导体行业提供广泛的客户特定的冲压或蚀刻引线框架。

今天, 几乎所有的电子设备都使用带有芯片的电子设备。Possehl Electronics 是您的合作伙伴, 使用不同的生产技术, 如冲压, 蚀刻和卷到卷光掩膜镀银, 具有最高的密度水平。所需的电镀饰面在室内进行。可实现客户特定的包装要求。

2. Stackpac®. Possehl Electronics 的智能芯片封装概念

您的方式模块化电子设计!

·节省 50% 以上的芯片封装成本

·集成例如在封装顶部的天线

·通过实现可靠的串行总线连接, 将芯片封装堆叠在一起, 从而节省 PCB 上的空间

·消除表面结构的结构和金属化的复杂工艺

·通过增加散热器或 EMC 保护, 在外壳中集成其他功能

该概念采用了最先进的标准生产技术, 可以以优化的成本快速可靠地实现大规模生产。

Possehl Electronics 随时准备与您合作设计合适的智能住宅。我们拥有冲压, 蚀刻, 电镀, 成型等所有工艺的能力。

3. 电源模块引线框

用于电源模块的引线框

不同的终端应用, 如混合动力和电动汽车逆变器, 光伏逆变器, 其他工业驱动解决方案。

Possehl Electronics 能够提供冲压与所需的清洗工艺相结合。如果需要, 可以在内部电镀。



1. QFN package for mobile phone and computer

Possehl Electronics offers a wide range of customer specific stamped or etched leadframes for the semiconductor industry.

Today pretty much every electronic device uses electronics with chips. Possehl Electronics is your partner for leadframes with highest density levels using different production technologies like stamping, etching and Reel-to-reel photomask Ag plating. Required plating finishes are applied inhouse. Customer specific packaging requirements can be realized.

2. Stackpac® -The Smart Chip package concept of Possehl Electronics

Your way to a modular electronics design!

- Save 50 % or even more of chip packaging costs
- Integrate e.g. an antenna on the top of the package
- Have the chip packages stacked on top of each others saving space on your PCB by implementing a reliable serial bus connection
- Get rid of complex processes for structuring and metallization of surface structures
- Integrate additional functions in the housing by adding e.g. heat sinks or EMC protection

The concept uses state of the art standard production technologies which allow a fast and reliable realization in mass production at optimized costs.

Possehl Electronics is ready to cooperate with you on suitable intelligent housing designs. We have all capabilities for processes such as stamping, etching, plating, molding in house.

3. Power module leadframes

Leadframe for power modules

Different end applications such as inverters for hybrid and electric cars, photovoltaic inverters, other industrial drive solutions.

Possehl Electronics is able to offer the stamping in combination with required cleaning processes. If requested inhouse plating will be possible.

展位号 / Booth No: C53

东莞市正远智能装备有限公司

Dongguan Zhengyuan Intelligent Equipment Co., Ltd



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产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 风能 Wind Energy

公司简介 / Company Profile:

东莞市正远智能装备有限公司 (正远精机) 是一家以人工智能和机器视觉为技术核心的专业智能装备制造制造商, 是国家高新技术企业, 创新型中小企业, 总部位于东莞, 在上海设有华东分公司, 公司核心成员均为智能装备行业及领域的资深人士, 已拥有自主开发的硬件及软件技术成果和专利近百项, 具有强大的研发实力。

正远精机坚持“崇尚创新, 追求严谨, 精益求精, 服务至上”的经营方针, 明确企业发展方向, 赋能中国制造业, 立志为客户及行业创造价值。公司成立以来在行业内口碑载道, 已经和多家上市公司达成战略合作。

产品涵盖点胶、画胶、喷胶、全自动贴装、AOI、排片、分选等应用及相关一体化设备和自动化整线设备, 涉及摄像头模组、安防、光通讯、芯片封装、半导体、新能源、微组装等行业及领域。

Dongguan Zhengyuan Intelligent Equipment Co., Ltd. (Zhengyuan Precision Machinery) is a professional intelligent equipment manufacturer with artificial intelligence and machine vision as its core technologies. It is a national high-tech enterprise, an innovative small and medium-sized enterprise headquartered in Dongguan, and has an East China branch in Shanghai. The core members of the company are all senior professionals in the intelligent equipment industry and field, with nearly 100 independently developed hardware and software technology achievements and patents, and strong research and development capabilities.

Zhengyuan Precision Machinery adheres to the business policy of "advocating innovation, pursuing rigor, striving for excellence, and putting service first", clarifies the direction of enterprise development, empowers China's manufacturing industry, and is committed to creating value for customers and the industry. Since its establishment, the company has been well-known in the industry and has established strategic partnerships with multiple listed companies.

Our products cover applications such as dispensing, painting, spraying, fully automatic mounting, AOI, layout, sorting, and related integrated equipment and automated assembly line equipment, involving industries and fields such as camera modules, security, optical communication, chip packaging, semiconductors, new energy, and microassembly.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 传感器 Sensors, 能源储存系统 Power Quality & Energy Storage

产品介绍 / Products Description:

功率模块高精度混合贴装机 IGBT High precision hybrid mounting machine



展位号 / Booth No: B40

道益企業

Dou Yee Enterprises



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邮箱 / E-mail: dyhk@douyee.com.hk

网址 / Web: https://www.douyee.com

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 电力供应 Power Supply

公司简介 / Company Profile:

道益企业是一家亚太地区全面工业解决方案的一流供应商。自 1982 年创始至今, 公司在半导体、硬盘储存以及电子产业领域已取得了极高成绩。我们遍布于世界主要国家与地区的 45 个国际分支机构可确保最快速、最便捷的方式将产品与服务交付至每一位客户。

我们的制造工厂, 分别位于新加坡、马来西亚(森美兰)、中国(苏州)、法国和波兰且均采用了可靠的质量管理体系, ISO9001 和 ISO14001 丰富的产品系列、可靠的产品品质、方便的在地化服务, 以及多年累积的丰富经验与专业知识是我们赢得众多客户信赖的基础。

Dou Yee Enterprises is a global premier total industrial solutions provider, serving with distinctions the semiconductor, data storage, electronics and biomedical industry since 1982.

We have more than 45 international branch offices strategically located around the world to give customers the fastest and most accessible products and services.

Our manufacturing plants, located in Singapore, Malaysia (Seremban), China (Suzhou), France and Poland are governed by consistent quality systems with ISO 9001 and ISO 14001 certifications.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 传感器 Sensors, 电力供应 Power Supply, 测试和测量 Test & Measurement

产品介绍 / Products Description:

IC 产品制造应用技术:

1. AI 行为辨识监控系统
2. IC 六面检测机台
3. ADC 智能缺陷分类系统

半导体封装工艺设备:

1. AMX 银烧结设备
2. SAKI, IGBT 自动检查设备
3. SMT 真空炉, 甲酸炉...

IC manufacturing application:

1. AI SOP System
2. IC / Components Defects System
3. ADC Defects Inspection System

Semiconductor Assembling process equipment:

1. AMX Sintering Equipment
2. SAKI, IGBT Automatic inspection equipment
3. SMT Formic Acid Vacuums Oven...



展位号 / Booth No: C28

同和金属技术有限公司 (日本)

DOWA METALTECH CO.,LTD.

DOWA

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产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

我们提供具有优异散热性、可靠性和高热循环耐久性的金属陶瓷基板。除工业应用, 我们的业务还扩展到铁路、太阳能、风电和电动汽车的应用, 预计未来这些行业将快速增长。

We provide metal ceramic substrates with excellent heat dissipation, high electrical reliability, and high heat cycle endurance. In addition to industrial applications, our business is expanding to applications of railway, solar and wind power generation industries and XEV which are expected to grow rapidly.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

我们主要为各种功率模块提供带有 Cu 和 Al 电路的 AlN (0.38、0.635、1.0mm) 基板。此外, 我们还为电动汽车提供集成基板, 这些是近年来新开发的集成陶瓷基板和散热器一体成型的产品。



Mainly we provide AlN(0.38, 0.635, 1.0 mm) substrates with Cu or Al circuit for various power modules. Also we provide integrated substrates, which were newly developed products in recent years integrating ceramic substrate and heat sink, for XEV.

展位号 / Booth No: F01

宜普电源转换公司

Efficient Power Conversion (EPC)



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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 医疗电子 Medical Electronics, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

EPC 是增强型氮化镓 (eGaN®) 电源管理领域的领导者。在 DC-DC 转换器、遥感技术 (激光雷达)、电动汽车电机驱动器、机器人、无人机和低成本卫星等应用中, eGaN FET 和集成电路的性能比最佳硅功率 MOSFET 高出许多倍。

EPC is the leader in enhancement mode gallium nitride (eGaN®) based power management. eGaN FETs and integrated circuits provide performance many times greater than the best silicon power MOSFETs in applications such as DC-DC converters, remote sensing technology (lidar), motor drives for eMobility, robotics, drones, and low-cost satellites.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

EPC 的 EPC2305 是一款 150 V、3 mΩ GaN FET, 采用耐热增强型 QFN 封装, 具有裸露顶部和微型 3 mm x 5 mm 封装。除了提供导通电阻一半且小十五倍的器件外, QG、QGD、QOSS 比 Si MOSFET 小三倍以上, 并且反向恢复电荷 (QRR) 为零。这些特性使得硬开关和软开关应用中的开关损耗都小六倍。驱动器损耗比硅解决方案低三倍, 并且振铃和过冲均显着减少。

100 V、1 mΩ EPC2361 GaN FET 采用紧凑的耐热增强型 3 mm x 5 mm QFN 封装, 为 DC-DC 转换、快速充电、电机驱动和太阳能 MPPT 提供更高的功率密度。它是市场上导通电阻最低的 GaN FET, 功率密度是 EPC 上一代产品的两倍。

EPC2361 的典型 RDS(on) 仅为 1 mΩ, 具有裸露顶部和微小的 3 mm x 5 mm 封装。EPC2361 的最大 RDS(on) x 面积为 15 mΩ*mm² - 比同类 100 V 硅 MOSFET 小五倍多。

EPC 的 ePower™ 级 IC 产品系列 EPC23102、EPC23103 和 EPC23104 使设计人员能够轻松利用 GaN 技术带来的显着性能改进。集成器件更容易设计、更容易布局、更容易组装、节省 PCB 空间并提高效率。设计人员可以使用这些器件来制造重量更轻、更精确的 BLDC 电机驱动器、更高效率的 48 V 输入 DC-DC 转换器、更高保真度的 D 类音频系统以及其他工业和消费应用。



EPC's, EPC2305 is a 150 V, 3 mΩ GaN FET in a thermally enhanced QFN package with exposed top and tiny 3 mm x 5 mm footprint. In addition to offering devices with half the on-resistance and fifteen times smaller, QG, QGD, QOSS are more than three times smaller than Si MOSFETs and the reverse recovery charge (QRR), is zero. These characteristics result in switching losses that are six times smaller in both hard switching and soft switching applications. The driver losses are three times less than silicon solutions and ringing and overshoot are both significantly reduced.

The 100 V, 1 mΩ, EPC2361 GaN FET, is housed in a compact, thermally enhanced 3 mm x 5 mm QFN package, offering higher power density for DC-DC conversion, fast charging, motor drives, and solar MPPTs. It is the lowest on-resistance GaN FET on the market offering double the power density compared to EPC's prior-generation products.

The EPC2361 has a typical RDS(on) of just 1 mΩ with exposed top and tiny, 3 mm x 5 mm, footprint. The maximum RDS(on) x Area of the EPC2361 is 15 mΩ*mm² – over five times smaller than comparable 100 V silicon MOSFETs.

EPC's ePower™ product family of stage ICs, the EPC23102, EPC23103 and EPC23104, make it easy for designers to take advantage of the significant performance improvements made possible with GaN technology. Integrated devices are easier to design, easier to layout, easier to assemble, save space on the PCB, and increase efficiency. Designers can use these devices to make lighter weight and more precise BLDC motor drives, higher efficiency 48 V input DC-DC converters, higher fidelity class-d audio systems, and other industrial and consumer applications.

展位号 / Booth No: D46

恩纳基智能装备（无锡）股份有限公司

Energy Intelligent Equipment (Wuxi) Co., Ltd.



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产品应用范围 / Scope of Applications:

电动汽车 E-mobility

公司简介 / Company Profile:

恩纳基成立于 2016 年，团队包括西安交通大学、哈尔滨工业大学、西北工业大学等知名院校的半导体设备行业优秀经营管理及技术研发人员，专注于功率模块、光通讯、传感器、微波、激光雷达等先进封装领域设备的研发与制造。产品已进入比亚迪半导体、中际旭创、华润微电子、安森美等行业领军企业。

ENERGY, founded in 2016, the team includes outstanding administrative and R&D staff in the semiconductor equipment industry from Xi 'an Jiaotong University, Harbin Institute of Technology, Northwestern Polytechnical University and other well-known universities. ENERGY focuses on researching and manufacturing advanced packaging machine for power module, optical communication, sensor, microwave, lidar and other fields. Our products have been recognized by BYD semiconductor, Zhongji Innolight, China Resources Microelectronics, Onsemi and other leaders of this field.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

M18(Power) 多芯片智能贴装装备、M18-Ag 多芯片智能贴装装备、A19-FC 芯片倒装键合设备



M18(Power) Multi-chip Die Bonder 、 M18-Ag Multi-chip Die Bonder、 A19-FC Flip Chip Bonder

展位号 / Booth No: F74

广东爱晟电子科技有限公司

EXSENSE Electronics Technology Co., Ltd.



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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 医疗电子 Medical Electronics, 通信 Communications, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

广东爱晟电子科技有限公司成立于 2007 年，专注于 NTC 热敏产品、邦定门极电阻及温度传感器的研发、生产及销售已经超过 17 年了。在功率模块领域的温度管理系统（包括 IGBT 模块、SiC 碳化硅模块等）中，爱晟有着全方位的产品布局，并与该领域的国际知名企业建立了长期的合作关系。爱晟拥有多种适用于功率模块领域的检测手段，可以更好地协助客户进行模块设计。

EXSENSE Electronics Technology Co., Ltd. was found in 2007, we have been focusing on the R&D, manufacturing and selling of NTC product, bonding gate resistor and temperature sensor for 17 years. In the temperature management system of power modules field (including IGBT module, SiC silicon carbide modules, etc.), EXSENSE has a full range of product layout, and has established long-term cooperative relationships with international renowned enterprises in this field. EXSENSE has a variety of testing methods applicable to the field of power modules, which can better assist customers in module design.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 传感器 Sensors, 智能运动 Intelligent Motion, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System

产品介绍 / Products Description:

一、邦定门极电阻

邦定门极电阻的稳定性好、温度系数小、精度高，可耐受高温长时间焊接，有水平导通式及垂直导通式两种，被广泛应用于 IGBT 模块、碳化硅模块、GaN 模块等。

二、耐焊型高可靠 NTC 热敏芯片

耐焊型高可靠 NTC 热敏芯片的可靠性高、响应速度快。芯片半导体陶瓷表面采用了致密工艺，耐酸性 / 还原性气氛焊接，被广泛应用于集成电路（如 IGBT）、高可靠温度传感器、医疗等。

三、贴片玻封 NTC 热敏电阻

贴片玻封 NTC 热敏电阻的尺寸小、耐高温、灵敏度高，被广泛应用于车规级 IGBT 模块、碳化硅模块、办公自动化等。



1. Bonding Gate Resistor

Bonding Gate Resistor has great stability, low temperature coefficient, high accuracy, which can withstand high-temperature long time soldering. It has Horizontal Conduction and Vertical Conduction, is widely used in IGBT module, SiC module, GaN module, etc.

2. Solderable Excellent-reliability NTC Chip

Solderable Excellent-reliability NTC Chip has excellent reliability, fast response. Surface of semiconductor ceramic adopts densified process, resist soldering of acid / reducing atmosphere, which is widely used in integrated circuit (Such as IGBT), high reliable temperature sensor, medical measurement, etc.

3. MELF Glass Encapsulated NTC Thermistor

MELF Glass Encapsulated NTC Thermistor has small size, fast response, which is suitable for high-temperature application scenarios. It is widely used in automotive Grade IGBT module, SiC module, office automation equipment, etc.

展位号 / Booth No: G59

即思創意股份有限公司

Fast SiC Semiconductor Incorporated

fastSiC

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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

即思创意 (Fast SiC Semiconductor Inc.) 成立於 2019 年, 是專業的碳化矽 (SiC) 功率元件設計公司, 致力於提供超低電容電荷碳化矽肖特基二極管及碳化矽 MOSFETs, 能大幅降低切換損耗, 適用於高頻操作。我們的目標是提供客戶可靠、高效、易驅動的碳化矽產品, 加速取代傳統矽元件。我們的產品參數指標 (FoM) 已達國際領先水準, 並擁有完整的專利布局和關鍵技術。目前, 我們的合作夥伴涵蓋消費性電源、工業及車規應用等領域。我們生產的碳化矽產品包括 650V、1200V 及 1700V 的 MOSFETs 和肖特基二極管, 並通過車規認證 AEC-Q101。我們的品牌 fastSiC 提供各種封裝形式的分離式功率半導體元件, 並供應碳化矽晶片給功率模組客戶。應用範圍涵蓋資料中心電源、光伏逆變器、新能源車充電樁和電動車 OBC 等。我們持續創新, 擁有超過數十項核心專利, 提供高性能且具成本競爭力的碳化矽產品, 並計劃在 2024 年推出下一代碳化矽 MOSFETs, 進一步提升性能。

Fast SiC Semiconductor Inc., established in 2019, specializes in designing silicon carbide (SiC) power devices. We offer ultra-low capacitance charge SiC Schottky diodes and MOSFETs that significantly reduce switching losses, suitable for high-frequency operations. Our goal is to provide reliable, efficient, and easy-to-drive SiC products to accelerate the replacement of traditional silicon components. Our product performance metrics (FoM) are internationally leading, supported by a comprehensive patent portfolio and key technologies.

Our partners include leaders in consumer power, industrial, and automotive sectors. We produce 650V, 1200V, and 1700V MOSFETs and Schottky diodes, all AEC-Q101 certified. Under the brand fastSiC, we offer discrete power semiconductor devices in various packaging forms and supply SiC wafers to power module customers. Applications include data center power supplies, photovoltaic inverters, new energy vehicle chargers, and EV onboard chargers (OBC).

We continuously innovate, holding dozens of core patents, and provide high-performance, cost-competitive SiC products. We plan to launch next-generation SiC MOSFETs in 2024 to further enhance performance.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1. 碳化硅功率二極管:

FastSiC 開發了 Cheetah 系列特高速 SiC MPS 二極管以及 Husky 系列低壓降 SiC MPS 二極管, 可有效適配各類高速及高電流應用, 使客戶能更有效的發揮碳化矽的全部潛力



2. 碳化硅功率 MOS 管:

FastSiC 開發了專為 LLC 等軟切換所設計的 Falcon 系列 SiC MOS 管、世界第一位專為常規矽器件匹配之低壓驅動所設計的 Lightning 系列 SiC MOS 管、以及專為 PFC 等硬切換應用所設計的 Eagle 系列 SiC MOS 管。即思開發的碳化矽 MOS 管在優先考量客戶的易用性的前提下, 各系列蘊含了專利的 Silent-Switch 靜切換技術、Direct-Drive 直驅技術及 E.A.G.L.E 等技術, 使客戶能更輕鬆易用, 實現將傳統矽基系統簡單升級至碳化矽高效緊湊系統的目標。



3. 碳化硅功率模塊:

FastSiC 開發了包含工業標準 SOT-227、62mm、Econodual、Fast IPU 以及 FastPack-Drive 等模塊, 提供客戶高效高集成度碳化矽模塊選項



1. Silicon Carbide Power Diodes:

FastSiC has developed the Cheetah series of ultra-fast SiC MPS diodes and the Husky series of low forward voltage drop SiC MPS diodes. These products are designed to effectively accommodate various high-speed and high-current applications, enabling customers to fully leverage the potential of silicon carbide.

2. Silicon Carbide Power MOSFETs:

FastSiC offers the Falcon series of SiC MOSFETs designed specifically for soft-switching applications such as LLC converters. The Lightning series is the world's first SiC MOSFET designed for low-voltage drive compatibility with conventional silicon devices. Additionally, the Eagle series of SiC MOSFETs is tailored for hard-switching applications like PFC. FastSiC's SiC MOSFETs prioritize customer ease of use and incorporate patented technologies such as Silent-Switch, Direct-Drive, and E.A.G.L.E., allowing customers to easily upgrade traditional silicon-based systems to high-efficiency, compact SiC systems.

3. Silicon Carbide Power Modules:

FastSiC has developed a range of modules including industry-standard SOT-227, 62mm, Econodual, Fast IPU, and FastPack-Drive. These modules provide customers with high-efficiency, highly integrated silicon carbide module options.

展位号 / Booth No: B33

无锡富光电子仪器有限公司

FROM (WUXI) ELECTRONIC INSTRUMENT CO LTD

FROM 富光

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Room 908,909,926&927 Building 9, No.299 Fang Cheng Road, Xinwu District, Wuxi City, Jiangsu Province 21402, PRC

电话 / Tel: 0510-83563559

邮箱 / E-mail: sales@from-electronic.com

网址 / Web: <http://www.from-electronic.com>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

无锡富光电子仪器有限公司是一家以区域代理销售先进可靠机电 / 无源零件为主的技术型企业, 公司具有丰富的电子零件知识及经验, 可以协助制造商解决研发中零件上的难题。除此之外, 我们代理的都是世界著名品牌, 他们拥有先进技术, 及一批累积丰富经验及零件知识的工程师, 在他们的技术支持下, 我们能够根据客人的特别需求, 设计出特别的型号, 迎合不同市场的需求。产品广泛应用于军工、医疗、通信、工控、仪器仪表、汽车船舶等。

FROM (WUXI) Electronic Instrument Co.,Ltd. is a regional sales agency of advanced and reliable electromechanical parts in Wuxi City,Jiangsu Prov of China. The company has a very rich electronic parts knowledge and sales experience. We can help manufacturers solve the problem of components in the research and development. In addition,the companies we have agent,are world famous brands,they have advanced technology,and the number of engineers accumulated rich experience and knowledge on electronic parts. By their technical support,the special designings of the model meet different markets,according to the special needs of the guests. Products are widely used in military, medical, communications, industrial, instrumentation,automotive, and service to the transportation, mechanical engineering, chemical engineering,oil and other industries.

FROM electronic also fetches the other brands in from overseas according to the requirements of individual guests in China.So, if you are a good brand of electronic components, please contact us.We will strive to sell your products in the entire Greater China.

FROM electronic will be a marketing channel of your product."Professional, integrity and efficiency" is our philosophy,and pursuit of "perfect" is our faith.

Willing to promot the common development hand in hand, and We will cooperate warmly to "a win-win situation and common progress."

产品范围 / Topics:

被动元件 Passive Components, 散热管理 Thermal Management, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 测试和测量 Test & Measurement

产品介绍 / Products Description:

- 1、均压电阻器 SR (10W to 13W) 通常应用在分压器和电容器的放电电路
- 2、铝壳封装功率电阻 RB (10 W to 250 W) 散热性能好, 高功率, 小尺寸
- 3、厚膜功率电阻器 PR (100W to 800W) 低寄生电感, 通常应用在阻尼和滤波电路
- 4、高耐压制动电阻 CBS/CMQ/CVS(1000V)/HVBS(3000V)
- 5、高压干簧继电器 3390C (切换电压 10000VDC, 耐压 15000VDC)



- 1、Symmetry resisotrs, Commonly used in voltage divider and capacitor discharge circuit)
- 2、Fixed power wirewound resistors aluminium housed, Good heat dissipation, high power, small size)
- 3、Thick film power resistors, Non inductive performance for high frequency applications.)
- 4、High energy dump resistors
- 5、High voltage reed relay

展位号 / Booth No: E14
富士电机 (中国) 有限公司
Fuji Electric (China) Co., Ltd



地址 / Add: 上海市普陀区凯旋北路 1188 号环球港 B 座 26 楼
26/F, Tower B, Global Harbor, No. 1188 Kaixuan North Road, Putuo District, Shanghai, China
电话 / Tel: 021-5496-1177*1182
邮箱 / E-mail: 123@123.com
网址 / Web: http://www.fujielectric.com.cn

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

富士电机作为全球功率半导体主流供应商和芯片生产商之一, 不断进行技术革新, 开发出具有独创性的产品, 为各个行业提供可靠的解决方案。作为快速开发新产品的客户最佳伙伴, 信守提供世界顶级品质的电子元件和服务的承诺。

Fuji Electric, as one of the world's leading power semiconductor suppliers and chip manufacturers, constantly carry out technological innovation, develop innovative products, and provide reliable solutions for various applications. As the best partner of customers for rapid development of new products, we keep our promise to provide the world's top quality electronic components and services.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 传感器 Sensors, 电力供应 Power Supply

产品介绍 / Products Description:

1. X 系列 IGBT: 操作结温提升至 175°C; 降低损耗, 利于系统节能; 提升功率密度实现系统的小型化; 新封装和芯片技术有助于提高可靠性。
2. 车规级 IGBT: 采用 RC-IGBT 芯片技术, 铜引线框技术, 以及直接水冷散热器结构等, 实现了高功率密度和小型化。
3. IPM: 内置有包含 IGBT 驱动电路和保护电路的控制 IC, 因而容易设计外围电路, 从而能够确保系统的高可靠性。适用于 AC 伺服系统、空调、升降机等应用场景。
4. SiC: 得益于 SiC 的出色特性, 能够实现高耐压、低功耗、高频动作和高温动作的器件, 并且封装和 Si 产品保持兼容。
5. PIM: 将三相逆变电路, 二极管桥堆, 制动电路集成到 1 个模块上的产品, 可以使主电路结构设计紧凑。
6. DualXT: 该封装形式有利于实现模块的并联使用, 通过 RC-IGBT 芯片技术更可将电流扩大到 1200V/1000A, 1700V/800A, 在新能源领域广泛应用。
7. HPnC: 新型大容量封装, 易于并联, 并提供更高的可靠性。适用于铁路交通领域, 同时也适用于工业应用。
8. 分立 IGBT: 可适用于 UPS、功率变换器, 空调、焊机和 DC/AC 转换器等电路中。
9. 多种拓扑结构: 包括应用于 UPS, PV 等三电平拓扑 IGBT, 也包括应用于 MV 等 4in1 拓扑 IGBT, 可根据客户需求进行定制化。

3. IPM:

Built-in IC with gate drive circuit and protection circuit, makes peripheral circuit design easier and enhances system reliability. Typical application includes for AC servo system, air conditioner, and elevator application.

4. SiC devices:

With SiC excellent characteristics, high blocking voltage, low power loss, high frequency switching and high temperature operation can be realized. Besides, the package is compatible to Si devices.

5. PIM:

Integrate 3-phase inverter, rectifier and brake circuit into one module, making main circuit simpler and compact.

6. DualXT:

This package is easy for parallel design, and the current can be upgrade to 1200V/1000A, 1700V/800A by using RC-IGBT chip. Widely used in renewable energy application.

7. HPnC:

This package is for high power application, also easy for parallel design. It can provide higher reliability and suitable for traction and also industrial application.

8. Discrete IGBT:

Suitable for UPS, power converter, air conditioner, welding machine and DC/AC converters.

9. Other topology:

including 3 level module for UPS, PV application, and 4in1 module for MV application. Any other customized needs are welcome.

富士电机
Fuji Electric

先进技术的象征
为环保与节能贡献力量

HPnC PrimePACK™ IGBT IPM
Standard 2-pack Dual XT
Dis IGBT 四合一IPM 小功率PIM 大功率PIM

富士电机作为跨国企业，通过提供丰富的节能技术和相关设备，极大地减轻了环境负担。
象征富士电机的先进技术，以自己的优质产品和服务，不断推动社会的前进与发展。

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展位号 / Booth No: F78

福建华清电子材料科技有限公司

Fujian Huaqing Electronic Material Technology Co.,Ltd



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邮箱 / E-mail: sales03@aln.net.cn

网址 / Web: <https://www.huaqingcn.com/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 汽车工程 Automotive, 风能 Wind Energy

公司简介 / Company Profile:

华清电子材料成立于 2004 年, 是国内领先的 AlN 和 Al₂O₃ 陶瓷基板材料供应商, 产品主要应用于 5G 通信、LED 封装、半导体、功率模块 (IGBT)、图像传感、新能源汽车等高科技领域。公司产品主要应用于 5G 通讯、LED 封装、半导体、功率模块 (IGBT)、图像传感、新能源汽车等高科技领域, 产品供应国内众多工业领域和大型知名电子元件制造商。经过多年的市场验证, 其可靠性和稳定性得到了客户的一致认可, 产品质量达到国际领先水平。生产规模和市场占有率全面领先。

Huaqing Electronic Material founded in 2004, is a leading domestic supplier of AlN and Al₂O₃ ceramic substrate materials. The company's products are mainly used in 5G communication, LED packaging, semiconductor, power module (IGBT), image sensing, new energy vehicles and other high-tech fields. The products are supplied to many domestic industrial fields and many large-scale well-known electronic component manufacturers. After years of market verification, the reliability and stability have been unanimously recognized by customers. The quality has reached the international leading level. The production scale and the market share is leading in all respects.

产品范围 / Topics:

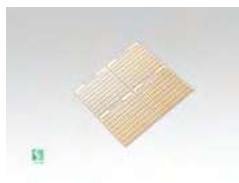
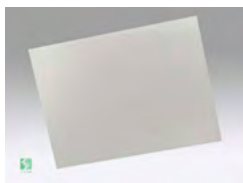
功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 传感器 Sensors, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System

产品介绍 / Products Description:

氧化铝流延片: 采用先进的成型工艺——流延片成型, 该工艺具有生产效率高、成本低、坯体性能均匀一致、工艺稳定等特点, 特殊规格的产品可根据客户需求生产。

96% 氧化铝陶瓷基板: 主要采用流延成型的工艺生产而成, 其主要有尺寸大、均匀性好、致密性高等特点, 此工艺更适合用于在陶瓷材料上做各种图形的金属化。

DBC: 它是一种高绝缘的 Al₂O₃ 或 AlN 陶瓷基板与金属铜的新型复合材料。在 1065~1085℃ 的高温环境下加热后, 铜和金属因高温氧化和扩散作用与陶瓷产生共晶熔体, 从而使铜和陶瓷结合形成陶瓷复合金属基板。然后通过曝光显影、蚀刻等步骤制作出线路基板。



AlN Tape-casting: Adopting advanced molding process: casting molding, the process has the characteristics of high production efficiency, low cost, uniform and consistent embryonic properties, process stability, etc. And special specifications can be customized according to the customer's requirements.

96% Alumina Ceramic Substrate: It's mainly produced by tape-casting process, which is characterized by large size, good uniformity and high compactness. This process is more suitable for metallization of various patterns on ceramic materials.

Direct Bonded Copper(DBC): It's a high insulation of Al₂O₃ or AlN ceramic substrate attached to a new composite material of copper metal. After heating by high temperature 1065~1085 °C environment, copper and metal produce eutectic melt with ceramic because of high temperature oxidation and diffusion, so that copper and ceramic are bonded to form ceramic composite metal substrate. Then through exposure development, etching and other steps to produce line substrate.

展位号 / Booth No: G14

珠海镓未来科技有限公司

GaNNext (Zhuhai) Technology Co., Ltd.



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电话 / Tel: 0756-8886753

邮箱 / E-mail: fred.feng@ganext.com

网址 / Web: http://www.ganext.com/

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 电力供应 Power Supply, 照明 Lighting, 计算电子 Computing Electronics

公司简介 / Company Profile:

珠海镓未来科技有限公司是行业领先的高压氮化镓功率器件高新技术企业, 致力于第三代半导体硅氮化镓 (GaN-on-Si) 研发与制造。总部位于横琴深合区, 深圳子公司聚焦应用和营销, 以及上海分公司和杭州华东应用中心, 为客户提供全方位的售前售后支持。镓未来以“打造和普及一流的氮化镓产品”为使命, 立志为业界提供“最好用最可靠”的氮化镓产品。

GaNNext (Zhuhai) Technology Co., Ltd. is an industry-leading high-voltage Gallium Nitride (GaN) power device hi-tech enterprise dedicated to the research, development and manufacturing of third-generation semiconductor Gallium Nitride-on-Silicon (GaN-on-Si). Headquartered in Hengqin, GaNNext has a subsidiary in Shenzhen focusing on application and marketing, as well as a branch office in Shanghai and an application centre in Hangzhou, East China, to provide customers with a full range of pre-sales and after-sales support. GaNNext mission is to "build and popularise first-class GaN products" and to provide the industry with the "best and most reliable" GaN products.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 能源储存系统 Power Quality & Energy Storage

产品介绍 / Products Description:

珠海镓未来科技有限公司是行业领先的高压氮化镓功率器件高新技术企业, 致力于第三代半导体硅氮化镓 (GaN-on-Si) 研发与制造。产品具有易于使用 (兼容 Si MOSFET 驱动)、可靠性高、性能参数领先等优点, 可提供 PQFN、DFN、TOLL、TOLT、TO-252 等贴片封装以及 TO-220、TO-247-3L、TO-247-4L 等插件封装全系列产品和功率 (1kW~10kW), 在国内率先实现全功率范围氮化镓器件的量产。重点市场包括消费电子、电动工具、数据中心、便携储能、微型逆变器、电动汽车、智能电网和工业市场。丰富的应用方案包括 PD 快充适配器、电动工具充电器、电机驱动、超薄 TV 电源、新国标 EBIKE 电源、LED 驱动电源、储能双向逆变器、电池化成电源、ICT 服务器电源、算力电源、车载双向 DC-DC 等。

Package	Pu/PQFN Sub-Si/Pu/PQFN Sub-Si/PC-DFN Sub-Si	PS-DFN Sub-Si	TC-TO-252	TL-TOLL	TT-TOLT	TA-TO-220	TB-TO-247-3L	TD-TO-247-4L
Footprint								
Vmax [Power]	NPN GaN pGaN (V _{CE} 1 or 2 generations; V _{CE} voltage rating, e.g. 650V; I _{CE} current, e.g. 0.15A; R _{DS(on)} resistance, e.g. 0.15mΩ; W package)							
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GaNNext

珠海镓未来科技有限公司
GaN Inspires Future

www.ganext.com

GaNNext (Zhuhai) Technology Co., Ltd. is an industry-leading high-tech high-voltage gallium nitride power device enterprise, dedicated to the third generation of semiconductor gallium nitride on silicon (GaN-on-Si) R & D and manufacturing. The products have the advantages of easy to use (compatible with Si MOSFET driver), high reliability, leading performance parameters, etc. We can provide PQFN, DFN, TOLL, TOLT, TO-252 and other SMD packages, as well as TO-220, TO-247-3L, TO-247-4L and other plug-in packages of a full range of products, to provide the market with high-efficiency, energy-saving and environmentally friendly next-generation power devices. Our products cover low power (<300W), medium power (300W~1kW) and high power (1kW~10kW), and we are the first in China to realize the mass production of Gallium Nitride devices in the full power range. Key markets include consumer electronics, power tools, data centers, portable energy storage, micro inverters, electric vehicles, smart grids and industrial markets. We can provide a lot of application solutions include PD Quick adapters, power tool chargers, motor drives, ultra-thin TV power supplies, new national standard EBIKE power supplies, LED drive power supplies, bi-directional inverters for energy storage, ICT server power supplies, AI server power supplies, and bi-directional DC-DC for vehicles.

展位号 / Booth No: F32
GTS 柔性材料有限公司
GTS Flexible Materials Ltd



地址 / Add: 41 Rassau Industrial Estate Ebbw Vale Gwent NP23 5SD
41 Rassau Industrial Estate Ebbw Vale Gwent NP23 5SD
电话 / Tel: +44 (0) 1495 354871
网址 / Web: <http://www.gtsflexible.com/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电力供应 Power Supply, 通信 Communications, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

GTS 柔性材料是一家专业从事胶粘剂设计和制造的公司, 产品和应用范围广泛。我们的材料包括粘合剂化学, 基材如塑料薄膜, 芳纶纸, 玻璃环氧树脂和金属铜, 铝和钢。我们的胶粘剂系统通常是混合环氧树脂, 但也可以根据客户要求定制, 我们的设计很灵活。

GTS Flexible Materials is a specialist in adhesive design and manufacturing for a wide range of products and applications. We make tapes, casts and flexible base materials in roll-to-roll processes. Our material expertise includes adhesive chemistry, substrates like plastic films, aramid papers, glass epoxies and metals like copper, aluminum and steel. Our adhesive systems are usually blended epoxies but also acrylic and polyester tailor-made to our customer's requirements. We are Flexible By Design.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System

产品介绍 / Products Description:

叠层母线绝缘胶膜, 要实现可靠的绝缘铜母线, 他们需要压合到由聚酯薄膜和环氧胶粘剂的绝缘胶带。GTS 的电力绝缘产品可用于多种结构和多种不同的粘合剂。一贯的品质、易用性和优良的技术特性, 使 GTS 电力线产品成为全球母线行业的标杆。



To achieve a reliable insulation of copper busbars they need to be laminated to an insulation tape made out of polyester film and epoxy adhesive. Powerline insulation products from GTS are available in a wide range of constructions and a number of different adhesives. Consistent quality, ease of handling and excellent technical characteristics have made GTS Powerline products to become a benchmark in the global busbar industry

展位号 / Booth No: B30

广东意杰科技有限公司

GuangDong EBG Electronics Co.,Ltd



地址 / Add: 广东省东莞市清溪镇青滨东路 105 号力合紫荆智能制造中心 17 栋

Building 17, Lihe Zijing Intelligent Manufacturing Center, No.105 Qingbin East Road, Qingxi Town,
Dongguan City, Guangdong Province

电话 / Tel: 0769-86818000

邮箱 / E-mail: yaotian.lin@ebg-resistors.com

网址 / Web: <http://www.ebg.com.cn>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

广东意杰科技有限公司, 前身是深圳意杰 (EBG) 电子有限公司, 由深圳科技园总公司于 1988 年投资开办, 主要生产精密金属膜电阻、厚膜功率电阻、厚膜高压电阻、碳复合吸能电阻、合金电阻、绕线电阻以及其它具有高可靠性、高稳定性及高性能要求的电阻器

GuangDong EBG Electronics Co.,Ltd, formerly Shenzhen EBG Electronics Co., LTD., was invested and established by Shenzhen Science Park Corporation in 1988, mainly produces precision metal film resistors, thick film power resistors, thick film high voltage resistors, carbon composite energy absorbing resistors, alloy resistors, winding resistors and other resistors with high reliability, high stability and high performance requirements

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components

产品介绍 / Products Description:

金属膜电阻, 功率电阻, 分流器



Metal film resistor, power resistor, shunt

展位号 / Booth No: B45

广东恒泰精密制造有限公司

Guangdong Hengtai Precision Manufacturing Co., Ltd.



地址 / Add: 广东省梅州市兴宁天河创新产业园 B1 栋

Building B1, Xingning Tianhe Innovation Industrial Park, Meizhou City, Guangdong Province.

邮箱 / E-mail: ht.wangjw@hkhangseng.cn

网址 / Web: <https://www.hsengtek.com>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

公司深耕半导体微电子封装材料及部件精密制造领域多年, 专注于专业从事钼铜合金、钨铜合金、铜合金、铝碳化硅、铝金刚石、陶瓷、可伐等材料产品的研发、生产、加工。我们凭借卓越的锻压、冲压及机械加工技术, 打造出品质卓越的产品, 广泛应用于功率半导体封装、5G 通信基站天线、IGBT 散热系统、航天航空航海等高科技领域。我们始终把科技创新和技术研发放在企业发展的核心位置, 不断探索产品与工艺技术的创新, 以适应日新月异的新领域和应用场景。同时, 我们坚持以客户需求为导向、提供高标准、高效率的个性化定制服务, 确保每位客户都能获得满意的产品体验。

The company has been deeply involved in the precision manufacturing of semiconductor and microelectronic packaging materials and components for many years. We specialize in the research, production, and processing of molybdenum-copper alloys, tungsten alloys, copper alloys, aluminum silicon carbide, aluminum diamond, ceramics, magnetic materials, and other products. With our excellent forging, stamping, and machining technologies, we create high-quality products that are widely used in high-tech fields such as power semiconductor packaging, 5G communication base station antennas, IGBT heat dissipation systems, aerospace, aviation, and navigation. We always prioritize technological innovation and technical research and development in our company's development strategy. We continuously explore product and process technology innovations to adapt to the ever-changing new fields and application scenarios. At the same time, we adhere to a customer-oriented approach by providing high-standard and efficient personalized customization services to ensure that every customer has a satisfactory product experience.

产品范围 / Topics:

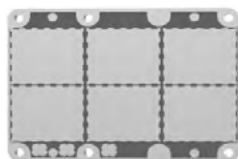
功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 能源储存系统 Power Quality & Energy Storage

产品介绍 / Products Description:

1. 针式散热铜基板: 针式散热铜基板具备针翅结构, 大幅提高了散热表面积, 可使功率模块形成针翅状直接冷却结构, 有效提高了模块散热性能, 促成功率半导体模块小型化。由于新能源汽车电机控制器用功率半导体模块对散热效率和小型化有较高要求, 因此在新新能源汽车领域得到了广泛运用。

2. 金刚石复合材料: 采用优质人工合成金刚石粉, 其具有 1000W/M.k 左右的热导率和极低的热膨胀系数, 合适的工艺下, 金刚石颗粒与铜合金达成冶金结合界面, 则金刚石铜复合材料具有极佳的热导率与合适的热膨胀系数。

3. 铝碳化硅: 铝碳化硅是一种金属陶瓷材料, 充分利用铝的低密度、高导热性能, 兼具碳化硅的低热膨胀高热性能。主要用于航空航天封装管壳及芯片、器件散热, 大功率 IGBT 模块的封装, 如动车、电力机车、单轨列车、地铁等。



1. Pinfin Copper Baseplate: Pin fin copper baseplate have a pin fin structure, which greatly increases the heat dissipation surface area. This allows power modules to form a pin fin-shaped direct cooling structure, effectively improving the heat dissipation performance of the module and promoting miniaturization of power semiconductor modules. Due to the high requirements for heat dissipation efficiency and miniaturization of power semiconductor modules used in electric motor controllers for new energy vehicles, they have been widely used in the field of new energy vehicles.

2. Diamond material: Diamond-copper is a composite material of diamond powder and copper alloy. It adopts high-quality synthetic diamond powder, which has a thermal conductivity of about 1000W/M.k and a very low thermal expansion coefficient. Under the appropriate process, the diamond particles and copper alloy will form the metallurgical bonding interface, so that the diamond-copper composite material has excellent thermal conductivity and appropriate thermal expansion coefficient.

3. AlSiC: AlSiC is a kind of metal ceramic material, which makes full use of the low density and high thermal conductivity of aluminum, and has the low thermal expansion and high thermal conductivity of silicon carbide. It is mainly used for aerospace packaging shell and chip, device heat dissipation, as well as packaging of high-power IGBT modules such as bullet train, electric locomotive, monorail train, and subway.

展位号 / Booth No: F62

广东杰果新材料有限公司

Guangdong Jieguo New Material Co., Ltd



地址 / Add: 惠州市博罗县石湾镇溪吓村杰果工业园

Jieguo Industrial Park, jiao-scare Village Shiwan Town, Boluo County, Huizhou City.

电话 / Tel: +86-0752-6322071

邮箱 / E-mail: gjg.lu@163.com

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 通信 Communications

公司简介 / Company Profile:

广东杰果新材料有限公司前身是广州市杰果电子科技有限公司, 成立于 2007 年底, “杰果”是公司的主导品牌。杰果公司有员工 11 人, 年产量 10000 吨, 产值 2.5 亿。

杰果是一家集有机硅、环氧树脂、PU (聚氨酯), 研发生产为一体的综合性化工企业。拥有高效精准的生产、研发和检测设备, 结合先进的生产管理技术, 已经成为国内胶粘剂领域有规模的企业。广东杰果新材料有限公司, 多年来一直为半导体功率器件、新能源器件、LED 器件、电子器件、汽车等行业用户提供优质、可靠的胶粘剂及硅油产品, 这些产品逐渐成为行业的主流方向和行业参考规范。

杰果, 将努力成为胶粘剂领域的一线品牌, 为用户提供更优质的产品和服务。

The predecessor of Guangdong Jieguo New Materials Co., Ltd. was Guangzhou Jieguo Electronic Technology Co., Ltd., which was established at the end of 2007. "Jieguo" is the leading brand of the company.

Jieguo Company has 110 employees, an annual output of 10,000 tons, and an output value of 250 million.

Jieguo is a comprehensive chemical enterprise integrating the research and development and production of organosilicon, epoxy resin, and PU (polyurethane). With efficient and precise production, research and development, and testing equipment, combined with advanced production management technology, it has become a large-scale enterprise in the domestic adhesive field. Guangdong Jieguo New Materials Co., Ltd. has been providing high-quality and reliable adhesive and silicone oil products for users in industries such as semiconductor power devices, new energy devices, LED devices, electronic devices, and automotive parts for many years. These products have gradually become the mainstream direction and industry reference norms in the industry.

Jieguo will strive to become a first-line brand in the adhesive field and provide users with better products and services.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management

产品介绍 / Products Description:

有机硅胶、环氧树脂胶、聚氨酯胶

应用于功率半导体、敏感器件, 电子电气灌封保护用高耐热硅凝胶可在 -55~215°C 环境内长时间使用, 以及高 TG 低膨胀系数液态环氧树胶, 主要是用于 IGBT 模块、电机、高压直流接触器

高耐热IGBT硅凝胶




1. 产品特点:

- 高导热流动性好
- 具有优异的电气绝缘性
- 具有优异的密封性及机械冲击
- 具有稳定的耐高温:-55°C~215°C 性能。

2. 应用于: IGBT功率器件封装、碳化硅器件封装、汽车 OBC 及混合动力电气系统封装。

Ψ JIEGUO

高Tg(液态)树脂胶



1. 产品特点:
粘度低自动流平性好, 固化后呈黑色亮面
具有优越的电气绝缘性
耐高低温冲击
高Tg低应力的特性
可在200摄氏度内长期工作

2. 应用于: IGBT模块、电机、高压直流接触器、固态继电器、电力电气组件密封

Get In
Touch

☎ 0752-6322767

工厂地址: 惠州大亚湾霞涌镇海垦农场工业路
中山分公司: 中山火炬开发区火炬大道广达科技园4楼405号
深圳分公司: 深圳市福田区华强北路华强科技园工业路4楼405号

Ψ JIEGUO

半导体封装硅胶



1. 产品特点:
高触变性, 固化后对芯片包裹性好
固化后为弹性体硅胶, 对PPA及金属具有良好粘接性
具有优越电气绝缘性和良好的密封性

2. 应用于: 半导体芯片保护光耦封装 (817, 357, 3H7等系列产品应用)

Get In
Touch

☎ 0752-6322767

工厂地址: 惠州大亚湾霞涌镇海垦农场工业路
中山分公司: 中山火炬开发区火炬大道广达科技园4楼405号
深圳分公司: 深圳市福田区华强北路华强科技园工业路4楼405号

展位号 / Booth No: F38

广东天域半导体股份有限公司

Guangdong Tianyu Semiconductor., Ltd.



地址 / Add: 广东省东莞市松山湖高新技术产业开发区工业北一路 5 号

No.5, Industrial North 1st Road, Songshan Lake High-Tech Zone, Dongguan, Guangdong, P.R.China

电话 / Tel: +86-769-22891678

邮箱 / E-mail: enquiry@sicty.com

网址 / Web: https://www.sicty.com

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply, 风能 Wind Energy

公司简介 / Company Profile:

广东天域半导体股份有限公司成立于 2009 年, 是我国最早实现第三代半导体碳化硅外延片产业化的企业, 也是国内第一家获得汽车质量认证 (IATF 16949) 的碳化硅半导体材料企业。

经过十余年的技术积累沉淀, 公司已发展成为全球碳化硅外延片的主要供应商, 在产品技术参数和客户器件良率等方面已达国际领先水平, 是我国碳化硅领域少数具备国际竞争力的企业之一。公司拥有国际最顶尖的碳化硅外延设备, 凭借先进的外延工艺为客户提供 N 型、P 型掺杂半导体材料, 可制作 650V~3300V、3300V~20000V 单极和双极功率器件, 主要包括 SBD、MOSFET、IGBT、JBS 等, 这些功率器件广泛应用于新能源汽车、光伏储能、轨道交通、智能电网、工业电源等领域。

Guangdong Tianyu Semiconductor Co., Ltd. was established in 2009. It is the first enterprise to realize the industrialization of the third-generation semiconductor SiC epitaxial wafers in China, and it is also the first domestic enterprise to obtain the automotive quality certification (IATF 16949) of SiC semiconductor material.

After more than ten years of technology accumulation and precipitation, the company has developed into a major supplier of SiC epitaxial wafers in the world. It has reached the international leading level in terms of product technical parameters and customer device yield, and is one of the few enterprises with international competitiveness in the field of SiC in China. The company has the world's top SiC epitaxy equipment, and provides customers with N-type and P-type doped semiconductor materials by virtue of advanced epitaxy technology, and produces 650V~3300V, 3300V~20000V unipolar and bipolar power devices, mainly including SBD, MOSFET, IGBT, JBS, etc. These power devices are widely used in new energy vehicles, photovoltaic energy storage, rail transit, smart grid, industrial power supplies and etc.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

碳化硅外延片

- 1、国内最早实现 4、6 英寸 4H-SiC 外延片的量产, 也是国内第一家获得车规认证的碳化硅外延材料企业
- 2、全球领先万伏级厚外延生长技术
- 3、全球领先的浓、厚度均匀性控制技术
- 4、全球最早实现 8 英寸碳化硅外延片量产的企业之一



4H-SiC epitaxial wafers

- 1、The world's leading epitaxial material defect density and uniformity control technology level
- 2、The leader in commercial supply of 8-inch SiC epitaxial wafers
- 3、The world's leading 10kV thickness epitaxial growth technology
- 4、The earliest mass production of 4-in and 6-in 4H-SiC epitaxial wafers in China

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展位号 / Booth No: A10
广州长瀚贸易有限公司
Guangzhou Nagase Trading Ltd
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地址 / Add: 广州市天河区珠江新城华夏路 10 号富力中心 1201 室

Add: Room 1201,1202&1208 R&F Center, No.10 Huaxia Road, Pearl River New Town, Tianhe District, Guangzhou

邮箱 / E-mail: ken.ye@nagase.com.cn

网址 / Web: <https://www.nagase.cn/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电力供应 Power Supply, 电机工程 Electrical Engineering, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

广州长瀚贸易有限公司, 是隶属于日本长瀚株式会社的在华全资子公司。是集团在中国华南地区汽车相关业务的核心, 营销额的 80% 为汽车相关业务。长瀚集团在国内外拥有超过 100 家全资公司和参股公司, 以化学合成成品和合成树脂事业为核心, 在电子技术相关, 汽车相关, 半导体相关三大战略领域中, 向客户提供贸易功能, 市场开拓功能, 研发功能和加工制造功能。此外, 对于进口困难的材料, 还提供进口代理服务。

Guangzhou NAGase Trading Co., Ltd. is a wholly owned subsidiary of NAGase Co., Ltd. It is the core of the group's automobile related business in South China, and 80% of the marketing amount is automobile related business. NAGase group has more than 100 wholly-owned companies and joint-stock companies at home and abroad. With the chemical synthetic products and synthetic resin business as the core, NAGase group provides customers with trade function, market development function, research and development function and processing and manufacturing function in three strategic fields related to electronic technology, automobile and semiconductor. In addition, we also provide import agency services for materials that are difficult to import.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 传感器 Sensors

产品介绍 / Products Description:

1.IGBT/IPM 塑胶壳体

采用日本进口 PBT 材料, 由日本 ATECS 提供技术支持, 实现国内本土化生产, 为客户提供优质廉价的产品。

2. 环氧树脂

提供由日本长瀚生产的环氧树脂, 可用于工业级, 车载级 IGBT 模块的生产和制造。

3. 真空回流焊治具

专业经营日本 ACC 生产真空回流焊治具, 由引进日本技术, 进行高精度支局加工。应对客户的各种规格要求。应用领域: IGBT 模块。材质: 石墨和铝的复合材料。



1.silica gel: Professionally operated ELKEM thermal conductive silicone gel, good thermal conductivity, high quality and inexpensive, and can be used in industrial grade, vehicle mounted IGBT module.

2.Epoxy resin:

Provide epoxy resin produced by Nagase in Japan, which can be used for the production and manufacturing of industrial grade and vehicle grade IGBT modules.

3.Vacuum reflow soldering fixture:

We specialize in the production of vacuum reflow soldering fixtures for Japanese ACC, with the introduction of Japanese technology for high-precision branch processing. Respond to various customer specifications and requirements. Application field: IGBT module. Material: Composite material of graphite and aluminum

展位号 / Booth No: G58

广州南砂晶圆半导体技术有限公司

Guangzhou Summit Crystal Semiconductor Co.,Ltd



地址 / Add: 广东省广州市南沙区万顷沙镇正翔路 8 号

No.8. Zhengxiang Road, Wan Qinsha Town, Nansha District, Guangzhou City, Guangdong Province, China.

电话 / Tel: +86-20+39006699

邮箱 / E-mail: sales@summitcrystal.com

网址 / Web: <http://www.summitcrystal.com/index.aspx>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply, 电机工程 Electrical Engineering, 通信 Communications, 汽车工程 Automotive, 风能 Wind Energy

公司简介 / Company Profile:

广州南砂晶圆技术有限公司成立于 2018 年 9 月, 是一家从事碳化硅单晶材料研发, 生产和销售的国家技术企业, 荣获国家级专精特新“小巨人”称号, 公司创业初期以山东大学多年来研发的最新技术成果为基础, 同山东大学徐现刚教授团队展开全方面产学研合作。

早在蒋民华院士的指导下, 长江学者徐现刚特聘教授带领团队经多年研发, 成功突破了碳化硅单晶生长及衬底制备技术, 为碳化硅衬底的国产商业化良好的基础。

公司总部设在广州市南沙区, 现有广州, 中山, 济南三大生产基地, 形成碳化硅单晶炉制造, 碳化硅粉料制备, 碳化硅单晶生长和衬底制备等完整的生产线; 公司产品以 6 英寸, 8 英寸导电型和半绝缘型碳化硅衬底为主, 可视市场需求不断丰富产品线。碳化硅单晶材料作为新基建的战略性材料十分重要, 公司将立足粤港澳大湾区, 力争发展成为全国乃至全球知名的碳化硅半导体材料公司。

Guangzhou Summit Crystal Semiconductor Co.,Ltd was founded in September,2018. The company is a National High-tech Enterprise engaged in the R&D, production and sales of Silicon Carbide single crystal materials. Summit Crystal implements comprehensive cooperation with Shandong University. Its proprietary technology is based on the latest research and development from team.

The Silicon Carbide material growing technology comes from the Academician Jiang Minhua and Changjiang Scholar Professor Xu Xiangang and his team in Shangdong University. After years of research and development, the team has made significant breakthroughs in Silicon Carbide single crystal growth and substrate processing technology. They have built a solid foundation for the commercialization of Silicon Carbide substrate production.

The company has a complete Silicon Carbide single crystal manufacturing and process line. Main products include 6 inch and 8 inch N-type Silicon Carbide substrates and ingots. Summit Crystal headquarter in Guangdong -Hong Kong-Macao Greater Bay Area and strive to become a globally recognized Silicon Carbide material manufacturer.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

6 英寸导电型碳化硅衬底,

8 英寸导电型碳化硅衬底: TSD, MPD 和 SF 可达到 0, BPD<200cm²

6 英寸 /8 英寸晶棒。



6-inch 4H-SiC n-type Substrate,

8-inch 4H-SiC n-type Substrate with 0 MPD, 0 TSD, 0 SF and low BPD ($\leq 200\text{cm}^2$)

6-inch/8-inch ingot.

展位号 / Booth No: F72

广州先艺电子科技有限公司

Guangzhou XianYi Electronic Technology Co., Ltd.



地址 / Add: 广东省广州市番禺区石基莲运一横路 16 号丰邦智造园 5 栋、6 栋 3 层

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电话 / Tel: +86-20-34698382

邮箱 / E-mail: raymond.huang@xianyichina.com

网址 / Web: <https://www.xianyichina.com>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

广州先艺电子科技有限公司创立于 2008 年, 是集高可靠微电子封装互连材料的研发、生产、销售于一体的国家高新技术企业、国家专精特新“小巨人”。

经过十几年的发展与沉淀, 先艺积累了多项核心技术, 自主研发的微电子封装互连材料、微电子封装互连器件和第三代功率半导体封装材料三大产品系列, 解决了国内关键战略材料的“卡脖子”问题, 突破了国外技术封锁, 成功实现进口替代。

未来, 我们致力成为“基于关键核心材料的微电子封装和半导体器件的集成服务商”。

Founded in 2008, XianYi Electronic is a premier manufacturer and solution provider in Semiconductor Micro-Electronic Interconnecting Brazing Solder Materials. With over 16 years of expertise and global clientele exceeding 1000+ customers, we lead advancements in electronics packaging materials science and technology.

At XianYi Electronic, we specialize in precision engineering and high-performance alloys, serving diverse industries such as Aerospace, Infrared RF, Laser, High-Performance Electronics, Automotive, Optical Communication, Medical Devices, and beyond.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1、AMB 陶瓷覆铜板

活性金属钎焊 (AMB) 陶瓷覆铜板具有铜层厚、导热性能好、抗温度冲击性能好、可靠性高的优势, 通常作为高压、大功率器件封装用基板, 尤其匹配第三代半导体 SiC 功率器件的封装需求, 广泛应用于新能源汽车、轨道交通、智能电网、航空航天等领域。

2、高洁净焊片及焊带

先艺电子的高可靠预成形焊片是微电子与半导体封装互连领域的理想解决方案。先艺电子在预成形焊片上拥有强大深厚的技术优势, 能够制备几乎各种合金材料的焊片及其各种形状的预成形焊片, 加工精度高, 焊接性能优良, 适用于各工业领域。

3、纳米银膏

先艺电子纳米银膏可替代现有的高铅焊料应用, 符合 RoHS 环保要求, 其采用独特的纳米银分散体系, 适用于 IGBT、LED、射频等功率元器件的无压封装, 能兼容常规锡膏的应用工艺和设备, 烧结后具有极佳的导热性能和高温可靠性, 尤其契合第三代半导体封装应用。



1. AMB Ceramic Substrates

Active Metal Brazing (AMB) ceramic substrate usually used as the package substrate for high-voltage power devices and it is specially suitable for the package demand of the third-generation semiconductor SiC devices.

2. Solder Preforms

The solder preform is customized solder with different shapes. Xian Yi can provide solder preforms in a variety of sizes with high machining accuracy and excellent soldering performance, suitable for different industry applications.

3. Nano-Ag Paste

Nano-Ag paste is compatible with dispensing and printing process and equipments for conventional solder paste. It is especially suitable for the third generation semiconductor application.

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展位号 / Booth No: C08

中电国基南方集团有限公司

CETC 中电国基南方集团有限公司

Guoji South Co.,LTD. of China Electronics Technology Group Corporation
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邮箱 / E-mail: cyfzb@cetc.com.cn

网址 / Web: https://www.cetc55.com

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

中电国基南方集团有限公司主要从事固态器件与微系统、光电显示与探测器件两大专业的研发生产服务与应用, 作为宽禁带半导体器件与集成技术国家重点实验室、固态微波器件与电路国家重点实验室、国家第三代半导体技术创新中心(南京)、国家平板显示工程技术研究中心等国家级平台依托单位, 建立了涵盖一、二、三代半导体材料的外延生长、设计、制造到封装、测试的全产业链自主核心技术能力, 形成了从材料、器件、芯片到模块组件的系列化、工程化、批量化产品谱系。

面向新一代移动通信、新能源、新型显示与探测等战略性新兴产业, 打造射频电子、功率电子、光电显示与探测重点产业板块, 形成了以 GaN/GaAs 射频功率器件和 MMIC、声表滤波器、SiC / Si 功率器件和模块、硅基 OLED 微显示器件和光学模组、紫外与微光探测组件等为代表的核心产品, 广泛应用于 5G 通信、新能源汽车、AR/VR 微显示、卫星互联网等领域, 有力支撑低空经济发展和能源结构升级, 加快形成新质生产力, 打造电子信息领域国内领先、全球有影响力的半导体 IDM 企业。

CETC Guoji South Group Co., Ltd. is mainly engaged in the R&D, production and application of solid-state devices and micro-systems, opto-electronic displays and detector devices. It has established an independent core capability covering the whole industrial chain, from epitaxial growth, design, manufacturing to packaging and testing of semiconductor materials, and has formed a mature and reliable products portfolio from materials, devices, chips to modules and components.

Embracing emerging industries such as the new generation of mobile communications, new energy, advanced display & detection technologies, the Company has built up key sectors including RF electronics, power electronics, opto-electronic display and detection, and delivered core products including GaN/GaAs RF devices, acoustic filters, SiC/Si power devices and modules, silicon-based OLED micro-displays and optical modules. UV and low-light detection components, which are widely used in 5G communications, new energy vehicles, AR/VR microdisplays, satellite internet and other fields. Those products strongly support the development of low-altitude economy and the upgrade of the energy structure and demonstrate the Company's determination to become a leading IDM semiconductor enterprise in China and abroad in the field of electronic information.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1、车规级 SiC MOSFET 器件

国基南方车规级 SiC MOSFET 产品专为满足汽车行业对可靠性、质量和性能的高要求而设计, 满足 AECQ-101 标准, 满足 HV-H3TRB 严苛环境要求, 产品具有绝佳的栅极氧化层可靠性、极低的开关损耗和导通损耗、与硅基 MOS 管和 IGBT 兼容的驱动、充足的短路抗雪崩能力, 满足车载高可靠、高性能、轻量化、小型化的应用需求。基于 ITAF16949 汽车质量管理体系, 严格的生产过程控制, 严格出货标准。

2、新型半导体功率模块

国基南方 600V-6500V SiC 功率模块、IGBT 模块产品, 广泛应用于新能源汽车、光伏发电及储能、电源、工业电机、工业变频、电焊机、UPS 电源、智能电网、轨道交通等领域。国基南方突破模块设计、封装、测试系列关键技术, 形成专业化的车规、光储、工业、高压电网用功率模块生产能力, 基于自主的 750V/1200V 系列 SiC 芯片, 率先实现全国产化 SiC 功率模块上车应用。

型号	封装	V _{DS} (V)	R _{DS(on)} (mΩ)	Drain Current (A)	V _{GS} (V) (V _{th} ±1)	Gate charge Total Q _g (nC)	Total Power P _D (W)	Junction Temperature T _{Jmax} (°C)
WMZV020069A		850	30	82	2.6	187	912	175
WMZV050069A			30	88	2.6	110	187	175
WMZV040069K			40	50	3.6	80	170	175
WMZV0401079K			11	110	2.6	248	576	175
WMZV0401234K			18	120	2.6	206	576	175
WMZV050120K			20	100	3.6	237	468	175
WMZV050210K		1200	30	85	2.6	187	312	175
WMZV040120K			40	82	2.6	112	269	175
WMZV071104K			75	30	2.6	133	136	175
WMZV040120K			14	140	2.6	26	58	175
WMZV050069L			20	90	2.6	187	312	175
WMZV050069L			600	50	3.6	110	187	175
WMZV050069L		750	40	90	2.8	80	179	175
WMZV071075L			11	150	2.6	258	576	175
WMZV080075L			80	80	2.6	50	120	175
WMZV0401075L			18	120	2.6	248	576	175
WMZV050105L			20	100	2.6	237	468	175
WMZV0501075L			30	85	2.6	187	312	175
WMZV040105L		1200	42	82	2.6	112	288	125
WMZV075105L			75	30	2.8	133	136	125
WMZV040105L			140	19	2.6	26	38	175
WMZV050069V			20	90	2.6	187	312	175
WMZV050069V			30	88	2.6	110	187	175
WMZV050069V			40	30	2.6	90	180	175
WMZV050120V		1200	30	88	2.8	187	312	175
WMZV050120V			40	82	2.6	112	269	175
WMZV040120V			75	30	3.6	103	136	175
WMZV040120V			15	150	2.6	258	576	175
WMZV050120V			20	90	2.6	187	312	175
WMZV050120V			30	88	2.6	110	187	175

A系列

• 电压等级: 662V/750V/1200V • 电流等级: 200A-800A • 应用场合: 新能源汽车



N/A/N/A/35%

- 电压等级: 660V/1200V/1700V
- 电流等级: 50A-300A
- 应用领域: 光伏储能/电网/电机控制



E-MS-311

- 电压等级: 650V/1200V/1700V
- 电流等级: 100A-500A
- 应用领域: 电机/电炉/轧钢/加热/电网



DOI: 10.1002/for

- 电压等级: 650V/1200V/1700V
- 电流等级: 50A-450A
- 应用领域: 电力/电机控制/配电



水原市

- 电压等级: 1700V/3300V/4500V/6500V
- 电流等级: 100A~1000A
- 应用领域: 电网电压无功补偿、2、3



八、高功率模块代表性产品列表

A10/A11/A16						A31-SIC MOSFET			
型号	V_{DS} (V)	I_{AS} (mA)	V_{GS} (V)	$R_{DS(on)}$ (Ω)	$R_{DS(on)}$ (m Ω)	型号	V_{DS} (V)	封装	Q_g (nC)
WGL0000F04T	450	300	1.45	15	0.14	WGL0000T04M	300	8	1200
WGL0000F04T	450	400	1.45	20	0.22	WGL0000T04M	400	3.1	1500
WGL0000F04T	450	500	1.45	25	0.31	WGL0000T04M	500	2.2	1000
WGL0000F04T	450	600	1.45	30	0.39				
WGL0000F04T	450	700	1.45	35	0.47				
WGL0000F04T	450	800	1.45	40	0.55				
WGL0000F04T	450	900	1.45	45	0.63				
WGL0000F04T	450	1000	1.45	50	0.71				
WGL0000F04T	450	1200	1.45	60	0.86				
WGL0000F04T	450	1500	1.45	75	1.07				
WGL0000F04T	450	2000	1.45	100	1.39				
WGL0000F04T	450	2500	1.45	125	1.71				
WGL0000F04T	450	3000	1.45	150	2.03				
WGL0000F04T	450	3500	1.45	175	2.35				
WGL0000F04T	450	4000	1.45	200	2.67				
WGL0000F04T	450	4500	1.45	225	2.99				
WGL0000F04T	450	5000	1.45	250	3.31				
WGL0000F04T	450	5500	1.45	275	3.63				
WGL0000F04T	450	6000	1.45	300	3.95				
WGL0000F04T	450	6500	1.45	325	4.27				
WGL0000F04T	450	7000	1.45	350	4.59				
WGL0000F04T	450	7500	1.45	375	4.91				
WGL0000F04T	450	8000	1.45	400	5.23				
WGL0000F04T	450	8500	1.45	425	5.55				
WGL0000F04T	450	9000	1.45	450	5.87				
WGL0000F04T	450	9500	1.45	475	6.19				
WGL0000F04T	450	10000	1.45	500	6.51				
WGL0000F04T	450	11000	1.45	550	7.13				
WGL0000F04T	450	12000	1.45	600	7.75				
WGL0000F04T	450	13000	1.45	650	8.37				
WGL0000F04T	450	14000	1.45	700	8.99				
WGL0000F04T	450	15000	1.45	750	9.61				
WGL0000F04T	450	16000	1.45	800	10.23				
WGL0000F04T	450	17000	1.45	850	10.85				
WGL0000F04T	450	18000	1.45	900	11.47				
WGL0000F04T	450	19000	1.45	950	12.09				
WGL0000F04T	450	20000	1.45	1000	12.71				
WGL0000F04T	450	22000	1.45	1100	13.93				
WGL0000F04T	450	24000	1.45	1200	15.15				
WGL0000F04T	450	26000	1.45	1300	16.37				
WGL0000F04T	450	28000	1.45	1400	17.59				
WGL0000F04T	450	30000	1.45	1500	18.81				
WGL0000F04T	450	32000	1.45	1600	20.03				
WGL0000F04T	450	34000	1.45	1700	21.25				
WGL0000F04T	450	36000	1.45	1800	22.47				
WGL0000F04T	450	38000	1.45	1900	23.69				
WGL0000F04T	450	40000	1.45	2000	24.91				
WGL0000F04T	450	42000	1.45	2100	26.13				
WGL0000F04T	450	44000	1.45	2200	27.35				
WGL0000F04T	450	46000	1.45	2300	28.57				
WGL0000F04T	450	48000	1.45	2400	29.79				
WGL0000F04T	450	50000	1.45	2500	31.01				
WGL0000F04T	450	52000	1.45	2600	32.23				
WGL0000F04T	450	54000	1.45	2700	33.45				
WGL0000F04T	450	56000	1.45	2800	34.67				
WGL0000F04T	450	58000	1.45	2900	35.89				
WGL0000F04T	450	60000	1.45	3000	37.11				
WGL0000F04T	450	62000	1.45	3100	38.33				
WGL0000F04T	450	64000	1.45	3200	39.55				
WGL0000F04T	450	66000	1.45	3300	40.77				
WGL0000F04T	450	68000	1.45	3400	41.99				
WGL0000F04T	450	70000	1.45	3500	43.21				
WGL0000F04T	450	72000	1.45	3600	44.43				
WGL0000F04T	450	74000	1.45	3700	45.65				
WGL0000F04T	450	76000	1.45	3800	46.87				
WGL0000F04T	450	78000	1.45	3900	48.09				
WGL0000F04T	450	80000	1.45	4000	49.31				
WGL0000F04T	450	82000	1.45	4100	50.53				
WGL0000F04T	450	84000	1.45	4200	51.75				
WGL0000F04T	450	86000	1.45	4300	52.97				
WGL0000F04T	450	88000	1.45	4400	54.19				
WGL0000F04T	450	90000	1.45	4500	55.41				
WGL0000F04T	450	92000	1.45	4600	56.63				
WGL0000F04T	450	94000	1.45	4700	57.85				
WGL0000F04T	450	96000	1.45	4800	59.07				
WGL0000F04T	450	98000	1.45	4900	60.29				
WGL0000F04T	450	100000	1.45	5000	61.51				
WGL0000F04T	450	102000	1.45	5100	62.73				
WGL0000F04T	450	104000	1.45	5200	63.95				
WGL0000F04T	450	106000	1.45	5300	65.17				
WGL0000F04T	450	108000	1.45	5400	66.39				
WGL0000F04T	450	110000	1.45	5500	67.61				
WGL0000F04T	450	112000	1.45	5600	68.83				
WGL0000F04T	450	114000	1.45	5700	70.05				
WGL0000F04T	450	116000	1.45	5800	71.27				
WGL0000F04T	450	118000	1.45	5900	72.49				
WGL0000F04T	450	120000	1.45	6000	73.71				
WGL0000F04T	450	122000	1.45	6100	74.93				
WGL0000F04T	450	124000	1.45	6200	76.15				
WGL0000F04T	450	126000	1.45	6300	77.37				
WGL0000F04T	450	128000	1.45	6400	78.59				
WGL0000F04T	450	130000	1.45	6500	79.81				
WGL0000F04T	450	132000	1.45	6600	81.03				
WGL0000F04T	450	134000	1.45	6700	82.25				
WGL0000F04T	450	136000	1.45	6800	83.47				
WGL0000F04T	450	138000	1.45	6900	84.69				
WGL0000F04T	450	140000	1.45	7000	85.91				
WGL0000F04T	450	142000	1.45	7100	87.13				
WGL0000F04T	450	144000	1.45	7200	88.35				
WGL0000F04T	450	146000	1.45	7300	89.57				
WGL0000F04T	450	148000	1.45	7400	90.79				
WGL0000F04T	450	150000	1.45	7500	92.01				
WGL0000F04T	450	152000	1.45	7600	93.23				
WGL0000F04T	450	154000	1.45	7700	94.45				
WGL0000F04T	450	156000	1.45	7800	95.67				
WGL0000F04T	450	158000	1.45	7900	96.89				
WGL0000F04T	450	160000	1.45	8000	98.11				
WGL0000F04T	450	162000	1.45	8100	99.33				
WGL0000F04T	450	164000	1.45	8200	100.55				
WGL0000F04T	450	166000	1.45	8300	101.77				
WGL0000F04T	450	168000	1.45	8400	102.99				
WGL0000F04T	450	170000	1.45	8500	104.21				
WGL0000F04T	450	172000	1.45	8600	105.43				
WGL0000F04T	450	174000	1.45	8700	106.65				
WGL0000F04T	450	176000	1.45	8800	107.87				
WGL0000F04T	450	178000	1.45	8900	109.09				
WGL0000F04T	450	180000	1.45	9000	110.31				
WGL0000F04T	450	182000	1.45	9100	111.53				
WGL0000F04T	450	184000	1.45	9200	112.75				
WGL0000F04T	450	186000	1.45	9300	113.97				
WGL0000F04T	450	188000	1.45	9400	115.19				
WGL0000F04T	450	190000	1.45	9500	116.41				
WGL0000F04T	450	192000	1.45	9600	117.63				
WGL0000F04T	450	194000	1.45	9700	118.85				
WGL0000F04T	450	196000	1.45	9800	120.07				
WGL0000F04T	450	198000	1.45	9900	121.29				
WGL0000F04T	450	200000	1.45	10000	122.51				
WGL0000F04T	450	202000	1.45	10100	123.73				
WGL0000F04T	450	204000	1.45	10200	124.95				
WGL0000F04T	450	206000	1.45	10300	126.17				
WGL0000F04T	450	208000	1.45	10400	127.39				
WGL0000F04T	450	210000	1.45	10500	128.61				
WGL0000F04T	450	212000	1.45	10600	129.83				
WGL0000F04T	450	214000	1.45	10700	131.05				
WGL0000F04T	450	216000	1.45	10800	132.27				
WGL0000F04T	450	218000	1.45	10900	133.49				
WGL0000F04T	450	220000	1.45	11000	134.71				
WGL0000F04T	450	222000	1.45	11100	135.93				
WGL0000F04T	450	224000	1.45	11200	137.15				
WGL0000F04T	450	226000	1.45	11300	138.37				
WGL0000F04T	450	228000	1.45	11400	139.59				
WGL0000F04T	450	230000	1.45	11500	140.81				
WGL0000F04T	450	232000	1.45	11600	142.03				
WGL0000F04T	450	234000	1.45	11700	143.25				
WGL0000F04T	450	236000	1.45	11800	144.47				
WGL0000F04T	450	238000	1.45	11900	145.69				
WGL0000F04T	450	240000	1.45	12000	146.91				
WGL0000F04T	450	242000	1.45	12100	148.13				
WGL0000F04T	450	244000	1.45	12200	149.35				
WGL0000F04T	450	2460							

1. Automotive Grade SiC MOSFET devices

The Automotive Grade SiC MOSFET products are specially designed to meet the high requirements of the automobile industry for reliability, quality and performance, meet the AECQ-101 standard and meet the harsh environmental requirements of HV-H3TRB. The products have excellent gate oxide reliability, extremely low switching loss and conduction loss, drive compatible with silicon-based MOS tubes and IGBT, and sufficient short-circuit avalanche resistance, which meets the application requirements of high reliability, high performance, light weight and miniaturization in vehicles. Based on IATF 16949 automobile quality management system, it has strict production process control and strict delivery standards.

2. New semiconductor power module

The 600V-6500V SiC power module and IGBT module products of Guoji South are widely used in new energy vehicles, photovoltaic power generation and energy storage, power supply, industrial motors, industrial frequency conversion, welding machines, UPS power supply, smart grid, rail transit and other fields. Guoji South broke through the key technologies of module design, packaging and testing, and formed a professional production capacity of power modules for vehicle regulations, optical storage, industry and high-voltage power grid. Based on the independent 750V/1200V series SiC chips, it took the lead in realizing the on-board application of fully domestic SiC power modules.

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展位号 / Booth No: B08

杭州高坤电子科技有限公司

Hangzhou Gaokun Electronic Technology Co.,LTD
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GKTECH

地址 / Add: 浙江省杭州市余杭区闲林工业园裕丰路 7 号

No. 7, Yufeng Road, Xianlin Industrial Park, Yuhang District, Hangzhou City, Zhejiang Province

电话 / Tel: +0571-85856333

邮箱 / E-mail: 1244269063@qq.com

网址 / Web: <http://www.hzgzkdz.com/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 汽车工程 Automotive, 风能 Wind Energy

公司简介 / Company Profile:

杭州高坤电子科技有限公司是一家半导体可靠性试验设备公司, 创立于 2013 年 3 月, 专注于功率半导体和集成电路的可靠性试验设备和量产老化设备。

GKTECH 获得国家级高新技术企业, 专精特新企业和杭州市企业技术中心等多个奖项, 立致成为世界一流的半导体科技公司, 为新能源汽车, 光伏, 储能, 大数据等行业做出卓越贡献。

GKTECH 总部位于杭州市余杭区裕丰路 7 号。公司现有员工 100 余人, 研发人员占比超过 50%。在武汉, 上海, 深圳等直设有分公司, 在台北, 新加坡, 马来西亚的吉隆坡, 槟城, 越南的胡志明市和河内设有售后服务部;

GKTECH 的主要产品主要有单管和模块的 HTRB / HTGB H3TRB, bHAST, PC, 集成电路的 HTOL, LTOL, THB 等设备。年生产设备 500 套以上, 销往全球;

Hangzhou Gaokun Electronic Technology Co., Ltd. is a semiconductor reliability test equipment company, founded in March 2013, focusing on reliability test equipment and mass production burn-in equipment for power semiconductors and ICs. GKTECH has won many awards such as national high-tech enterprises, specialized and special new enterprises and Hangzhou Enterprise Technology Center, aiming to build a world-class innovative technology company and make outstanding contributions to new energy vehicles, photovoltaic, energy storage, big data and other industries.

GKTECH is headquartered at No. 7 Yufeng Road, Yuhang District, Hangzhou. The company has more than 100 employees, R&D personnel accounted for more than 50%. We have branches in Wuhan, Shanghai, Shenzhen, etc., and after-sales service departments in Taipei, Singapore, Kuala Lumpur and Penang in Malaysia, Ho Chi Minh City and Hanoi in Vietnam.

GKTECH's main products are single-tube and module HTRB/HTGB, H3TRB, bHAST, IOL, PC, integrated circuit HTOL, LTOL, THB and other equipment. Annual production equipment more than 500 sets, sold to the world;

GKTECH is core values are: seeking truth from facts, continuous innovation, the pursuit of excellence!

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 开发软件 Development Software, 信息与服务 Information & Services

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展位号 / Booth No: H35**杭州晶磁电子有限公司****Hangzhou Jing Electronics Co., Ltd**

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地址 / Add: 浙江省杭州市桐庐县凤川街道春江东路 1718 号 A5 幢

Block A5, No.1718, Chunjiang East Road, Fengchuan Street, Tonglu County, Hangzhou, China

电话 / Tel: 13588415133

邮箱 / E-mail: ping.li@foresee.xyz

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 电力供应 Power Supply, 医疗电子 Medical Electronics, 风能 Wind Energy

公司简介 / Company Profile:

杭州晶磁电子有限公司是一家专业从事超薄纳米晶铁芯及软磁器件的研发、生产及销售的新型科技企业。公司成立于 2024 年 3 月, 注册资本 1000 万元, 位于杭州市桐庐县经济开发区。

公司致力于以纳米晶材料为核心的软磁器件, 主要产品有纳米晶铁芯, 纳米晶电感、变压器、电抗器等, 这种新型金属功能材料具有生产工艺短、一次成型、节能降耗的特点。它具有高饱和磁化强度, 低损耗, 高磁导率的特点, 符合电力电子行业高效率、小型化、节能环保的未来发展方向,

公司秉承: 专业铸就自信, 品质创造未来, 合作共赢, 携手发展的理念。致力于成为值得客户信赖的专业软磁产品生产商, 期待与您共创未来。

Hangzhou Jing Electronics Co., Ltd is a new technology enterprise specializing in the R&D, production, and sales of ultra-thin nanocrystalline iron cores and soft magnetic devices. Established in March 2024 with a registered capital of 10 million CNY, we are located in the Tonglu County Economic Development Zone, Hangzhou City.

We focus on soft magnetic devices utilizing nanocrystalline materials at our core. Our main products include nanocrystalline iron cores, inductors, transformers, reactors, etc. These advanced metal functional materials boast a short production process, single-step formation, and significant energy savings. They exhibit high saturation magnetization, low losses, and high permeability, aligning perfectly with the future trends of efficiency, miniaturization, energy saving, and environmental protection in the power electronics industry.

We uphold a philosophy of "Professionalism breeds confidence, Quality creates the future, Cooperation achieves mutual benefit, Hand in hand for development." Committed to becoming a professional manufacturer of soft magnetic products, we eagerly anticipate shaping the future together with you.

产品范围 / Topics:

被动元件 Passive Components, 伺服技术 / 执行器 Electrical Drives

产品介绍 / Products Description:

一、非晶电感

可以用于滤波, 储能, pfc (功率因素矫正), boost buck 等。

特点:

1. 磁导率高、损耗低, 可以更有效的提高高频电路的滤波效果, 频率覆盖面广;
2. 具有较高的磁导率和能量密度、更低的损耗、优异的抗 DC 能力, 以及热稳定性; 相对于传统的铁芯材料, 纳米晶铁芯具有更高的磁性能和温度稳定性, 能够在高温和高频率环境下保持稳定的性能。此外, 由于其优异的磁性能及极低的损耗, 同等性能下可以做的体积及重量做的更低, 提高设备的效率和使用寿命。可应用于高精度传感器、电机、发电机、变压器、磁性存储器等领域。
3. 温度稳定性强, 可在 -40~125℃ 温度工作;
4. 体积可以做得非常紧凑, 并且质量较轻, 便于携带和移动。

二、纳米晶铁芯

纳米晶铁芯是一种新型的铁芯材料, 主要由 Fe、Cu、Ni、Si、B 等元素组成, 其晶粒大小在纳米晶级别。具有较高的磁导率和磁感应强度、更低的损耗、优异的抗 DC 能力, 以及热稳定性; 相对于传统的铁芯材料, 纳米晶铁芯具有更高的磁性能和温度稳定性, 能够在高温和高频率环境下保持稳定的性能。此外, 由于其优异的磁性能及极低的损耗, 同等性能下可以做的体积及重量做的更低, 提高设备的效率和使用寿命。可应用于高精度传感器、电机、发电机、变压器、磁性存储器等领域。



1. Amorphous inductor

Can be used for filtering, energy storage, PFC (power factor correction), boost buck, etc.

- a. High magnetic permeability and low loss can effectively improve the filtering effect of high-frequency circuits, with a wide frequency coverage;
- b. It has high magnetic permeability and energy density, low hysteresis loss, and can achieve high energy density energy storage and conversion;
- c. Strong temperature stability, capable of working at temperatures of $-40\sim 125\text{ }^{\circ}\text{C}$;
- d. The volume can be made very compact and lightweight, making it easy to carry and move.

2. Nanocrystalline core:

Nanocrystalline core is a new type of iron core material, mainly composed of elements such as Fe, Cu, Ni, Si, B, etc. Its grain size is at the level of nanocrystals. Having high magnetic permeability and magnetic induction strength, lower losses, excellent DC resistance, and thermal stability; Compared to traditional core materials, nanocrystalline cores have higher magnetic properties and temperature stability, which can maintain stable performance in high temperature and high frequency environments. In addition, due to its excellent magnetic properties and extremely low losses, it can achieve lower volume and weight under the same performance, improving the efficiency and service life of the equipment. Can be applied in high-precision sensors, motors, generators, transformers, magnetic memory and other fields.

展位号 / Booth No: B04

杭州三海电子科技股份有限公司

Hangzhou Sanhai Electronic Technology Co., Ltd



地址 / Add: 浙江省杭州市余杭区闲林街道闲兴路 25 号 13 幢厂房

building 13, No. 25 Xianxing Road, Xianlin Street, Yuhang District, Hangzhou, Zhejiang Province

电话 / Tel: 4006859560

邮箱 / E-mail: yangzhun@sanhaiteji.com

网址 / Web: https://www.sanhaiteji.com

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 医疗电子 Medical Electronics, 通信 Communications, 计算机电子 Computing Electronics

公司简介 / Company Profile:

杭州三海电子科技股份有限公司(以下简称“三海科技”)创始于 2002 年,是一家专业从事可靠性检测设备研发、生产、服务的国家级高新技术企业,产品包括微电子器件、半导体分立器件、电子电气元件等各类可靠性检测设备以及配套的测试座、负载板,同时紧跟半导体的发展潮流,推出了针对 SiC、GaN 工艺的功率半导体器件、IGBT 模块以及微波射频器件的各种可靠性检测设备。在此基础上,将元器件失效机理模型与检测技术相结合,创新性采用仿真技术,建立各类数学模型,形成了包括电子产品可靠性加速寿命评估系统、电机测试及寿命评估系统、储能单元可靠性监测系统独具特色的可靠性检测评估系统,全面诠释了三海科技作为国家级巨人的“专精特新”属性。

三海科技拥有经验丰富、实力雄厚的产品研发团队,能够根据用户的需求快速准确地提供完整的可靠性检测解决方案并生产配套的定制型产品。三海科技始终坚持“质量第一、用户至上”的经营理念,在严酷的竞争环境下,仍然一如既往地坚持硬件物料优选,按照质量管理体系对每一道工序实施严格的工艺管理,保证产品的可靠性、维修性、测试性、保障性、安全性和环境适应性,赢得了用户的一致好评。

Hangzhou Sanhai Electronic Technology Co., Ltd Inc (Sanhai technology) was founded in 2002, we were awarded as national high-technology enterprise working on developing, manufacturing and selling about reliability test equipment. Our products include microelectronic components, discrete semiconductor components, electrical and electronic components test system and the corresponding test-base and load-board. As we move forward with the development of semiconductors, we offered test equipment with power semiconductor components, IGBT module and microwave radio frequency focusing on SiC and GaN devices. Based on that, we combined component failure mechanism model with the testing technology, while the simulation technology is innovatively adopted, and various mathematical models are established, forming a unique reliability testing and evaluation system including electronic product reliability accelerated life evaluation system, electric motor test and life evaluation system, energy storage unit reliability monitoring system, etc., which comprehensively interprets the "specialized, refined, differentiated and innovative" attributes of Sanhai Technology as a national growing giant.

Sanhai Technology has an experienced and strong research and development team, which can quickly and accurately provide complete reliability testing equipment solutions and produce supporting customized products according to the needs of users. Sanhai Technology are always following the business philosophy of "quality first, customer first", in the harsh competitive environment, still seeking for the optimization of hardware materials as always, apply strict management policy for each process in accordance with the quality management system, and ensures the reliability, maintainability, testability, supportability, safety and environmental adaptability of the product, which has won unanimous praise from our customers

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 测试和测量 Test & Measurement

产品介绍 / Products Description:

1. 单管功率循环老炼检测系统

产品概述: 适用于各种封装 (TO-247-3、TO-247-4、Tpk, EasyPack 等小模块) 的 Diode、Si-MOSFET、Si-IGBT、SiC-MOSFET、GaN-HEMT 等功率模块进行热阻测试、功率循环 (Psec、Pmin) 满足标准 AEC-Q101 和 AQC-324 等的要求; 最大支持电流 250A(40V); 3 通道分时复用一台电源, 3 台电源支持最多 81 颗器件测试;



栅极电压 -20V~+20V 整机 81 颗独立可调，支持 SiC/Si 基单管测试；
根据测试需求，提供多种节温、热阻测量以及控制方法选择；自动识别测试过程中器件老化原因（键合线或焊料层老化）；结合测试条件与测试结果，输出寿命模型；
多重样品保护，可设定 $V_{on}>105\%$ ， $R_{thjc}>120\%$ 或 $T_{jmax}>120\%$ 等参数后自动停止测试。

1、Single-pipe power cycle old smelting detection system

Product overview

Diode, Si-MOSFET, Si-IGBT, SiC-MOSFET, SiC-MOSFET, GaN-HEMT and other power modules for various packages (TO-247-3, TO-2-47-4, Tpak, Easypack) for thermal resistance test, power cycle (Psec, Pmin) to meet the requirements of standard AEC-Q101 and AQG-324;

Maximum support current of 250A (40V);

3 channels time-sharing reuse of one power supply, 3 power supply support up to 81 device testing;

Gate voltage -20V~ + 20V machine 81 independent adjustable, support SiC / Si based single tube test;

According to the test requirements, provide a selection of various temperature and thermal resistance measurement and control methods; automatically identify the causes of device aging during testing (bonding line or solder layer aging); output life model combined with test conditions and test results;

Multiple sample protection, which can automatically stop testing after setting the $V_{on}> 105\%$, $R_{thjc}> 120\%$ or $T_{jmax}> 120\%$.

2、模块功率循环老炼检测系统

产品概述：适用于各种封装的半导体分立器件 / 功率模块进行间歇寿命试验 (IOL)、

和秒级 / 分钟级功率循环试验 (PCsc/PCmin)、稳态寿命、HTFB、SiC MOSFET 体

二极管双极退化试验

符合标准：GJB128、MIL-STD-750、JESD22-A108、AEC-Q101、IEC60747、AQG-324...

试验模式：电性考核、例行品质、器件鉴定

试验对象：各种封装类型 Diode、Si-MOSFET、Si-IGBT、SiC-MOSFET、GaN-HEMT

等功率模块 ...

试验场合：军工电子、汽车电子、消费电子、半导体器件设计和封测企业...



2、Module power cycle detection system

Product overview

It is suitable for various packaged semiconductor discrete devices / power modules for intermittent life test (IOL), and second / minute power cycle test (PCce / PCmin), steady state life, HTFB, SiC MOSFET body diode bipolar degradation test

Compliance with the criteria: GJB128, MIL-STD-750, JESD22-A108, AEC-Q101, IEC60747, AQG-324...

Test mode: electrical assessment, routine quality, device appraisal.

Test objects: various package types of power modules such as Diode, Si-MOSFET, Si-IGBT, SiC-MOSFET, GaN-HEMT and so on...

Test occasions: military electronics, automotive electronics, consumer electronics, semiconductor devices design and sealing and testing enterprises....

3、小功率集成电路动态老炼设备 (TDBI)

产品概述：适用于小功率（单颗功率 < 10W）的集成电路，例如模拟、数字、

数模混合、SOC、ASIC 口等，在不同生命阶段 (NPI/ELFR/MP) 根据需求设计

要求进行动态老炼试验 TDBI (Test during burn in)。

试验腔体为单温区和双温区可选，每个温区 16 个通道，每个通道采用主控与

老化板一驱二的设计，每块主控可独立运行，提高效率与利用率。供电采用

三级系统方式以达到最佳的稳定性和可靠性。

支持向量格式：WGL .AVC.VEC.STIL .ATP.TXT .EXCEL 等；

具有可扩展的电源通道；

支持各种电源配置：提供设备自检与校准功能；



3、Low power integrated circuit dynamic old refining equipment (TDBI)

Product Overview:

Suitable for integrated circuits with low power (single power <10W), such as analog, digital, analog and digital mixing, SOC, ASIC, etc., in dynamic NPT TDBI (Test during burn in) at different life stages (NPI / ELFR / MP).

The test cavity is single and double temperature area, with 16 channels in each temperature area, each channel adopts the design of main control and aging plate one drive two, and each main control can operate independently to improve the efficiency and utilization rate. Power supply adopts a three-level system to achieve the optimal stability and reliability.

Support vector format: WGL.AVC.VEC.STIL .ATP.TXT .EXCEL class; With scalable power channels;

Support various power supply configuration: provide equipment self-inspection and calibration function.

展位号 / Booth No: B12

杭州士兰微电子股份有限公司

HANGZHOU SILAN MICROELECTRONICS CO.,LTD



地址 / Add: 浙江省杭州市西湖区黄姑山路 4 号

No.4 HuangGuShan Road, HangZhou, P.R.China.

电话 / Tel: +86-578-88210880

邮箱 / E-mail: silan@silan.com.cn

网址 / Web: <https://www.silan.com.cn>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

杭州士兰微电子股份有限公司 (600460) 坐落于杭州高新技术产业开发区, 是专业从事集成电路芯片设计以及半导体微电子相关产品生产的高新技术企业。公司成立于 1997 年 9 月, 总部在中国杭州。2003 年 3 月公司股票在上海证券交易所挂牌交易, 是第一家在中国境内上市的集成电路芯片设计企业。得益于中国电子信息产业的飞速发展, 士兰微电子已成为国内最具规模的集成电路芯片设计与制造一体 (IDM) 的企业之一。公司的技术与产品涵盖了众多领域, 在多个技术领域保持了国内领先的地位, 如绿色电源芯片技术、MEMS 传感器技术、LED 照明和屏显技术、高压智能功率模块技术、第三代功率半导体器件技术、数字音视频技术等。同时利用公司在多个芯片设计领域的积累, 为客户提供针对性的芯片产品系列和系统性的应用解决方案。

Hangzhou Silan Microelectronics Co., Ltd. (600460), located in Hangzhou high tech Industrial Development Zone, is a high-tech enterprise specializing in integrated circuit chip design and semiconductor microelectronics related products. The company was founded in September 1997 and headquartered in Hangzhou, China. In March 2003, the company's shares were listed and traded in Shanghai Stock Exchange. It is the first integrated circuit chip design enterprise listed in China. Thanks to the rapid development of China's electronic information industry, Silan has become one of the largest integrated enterprises in IC designing and manufacturing (IDM) in China. Silan has mastered various core/patent technologies ranking number one in China: green power chip technology, MEMS Sensor Technology, LED Lighting and Screen Display Technology, High Voltage Intelligent Power Module Technology, Third Generation Power Semiconductor Device Technology, Digital audio and video technology and etc. Based on the rich accumulation in various chip design fields, Silan will provide customers with targeted chip product series and systematic application solutions. According to Omdia data, the IPM products of Silan micro ranked ninth in the world in the market ranking, and the discrete IGBT products ranked tenth in the world.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 传感器 Sensors

产品介绍 / Products Description:

A.SGM480SS8B7TFM 单并模块是士兰微电子基于 FS5++ 工艺自主研发的, 单并即可实现 120kW 功率范围的出流能力, 其峰值电流能力可达 350ARMS, 具有高电流密度、高短路能力和高阻断电压等级, 为严苛环境条件下的逆变器运行, 提供更可靠的保障。

B.SSM1R7PB12B3DTFM 是士兰微电子基于自主研发的 SiC MOS 芯片技术开发的六单元拓扑模块, 具有高电流密度、高短路能力和高阻断电压等级, 为严苛环境条件下的逆变器运行, 提供更可靠的保障。



A.SGM480SS8B7TFM is a power discrete with B7 package type. Its independently developed based on Silan FS5++ IGBT platform. Its an automotive qualified Power Module designed for Hybrid Electrical Vehicles (H)EV applications. Provide more reliable guarantee for inverter operation under harsh environmental conditions.

B.SSM1R7PB12B3DTFM is a six pack topology power module with B3 package type. Its independently developed based on Silan Gen II SiC MOS platform. Its an automotive qualified Power Module designed for Hybrid Electrical Vehicles (H)EV applications. Provide more reliable guarantee for inverter operation under harsh environmental conditions.

展位号 / Booth No: A01

海特信科新材料科技有限公司

Heatsink New Material Technology Co., Ltd.

HEATSINK
海 特 信 科

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电话 / Tel: +86 13714394044

邮箱 / E-mail: liaoxm@heatsink-group.com

网址 / Web: http://www.heatsink-group.com/

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply, 通信 Communications, 风能 Wind Energy

公司简介 / Company Profile:

海特信科是一家集材料研发、生产、电镀为一体的高新产业公司, 达到国内顶尖、国际先进水平。海特信科核心团队的材料科研水平拥有 30 余年技术积累, 在国内外市场都具有绝对的竞争力。产品包括钨钼材料、热沉材料、功率模块散热基板、高性能铝合金等板块。其中, 钨钼材料分为纯钨、纯钼、钨铜、钼铜、高比重、弥散铜等系列; 热沉材料分为钨铜热沉、钼铜热沉、铜钼铜、铜钼铜铜、金刚石铜等系列; 散热基板分为针板和平板系列; 高性能铝合金分为高强高导铝、高强韧铝合金、铝基复合材料等。

Heatsink New Material Technology Co., Ltd.

Strong on Advanced Materials; Expert in Heat Dissipation.

Top-quality high-end product portfolio covering a full range of high-performance microelectronic heat management materials; Tailor-made products of the highest quality, meet or exceed the customer's exact requirements. Widely used in microwave, radio frequency, infrared, laser, integrated circuit, NEV industry and many other fields.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System

产品介绍 / Products Description:

1. 散热铜基板

分为铜针板、铜平板。海特信科散热铜基板六大优势: 一、冷精锻工艺稳定。二、模具寿命长。三、关键工序有诸多独特工艺。四、全工序自建。五、行业进入早、量产及大厂配套经验丰富。六、专注于热沉行业 30 余年, 产能规模居于行业前列, 成本优势显著, 保供能力强。

2. 钼铜 SPACER

海特信科的钼铜合金可以做到几乎完全致密、无缺陷、细晶组织, 氦质谱仪检漏材料气密性 $<5 \times 10^{-9} \text{Pa/m}^3 \cdot \text{s}$, 与国外产品相当。与钨铜相比, 钼铜密度更低, 可轧性更好, 适于生产薄带产品; 且钼铜可冲压, 适于大批量、低成本生产热沉零件。

3. 弥散铜、弥散铝

纳米氧化铝赋予材料的高强度和硬度, 又不会明显降低合金的导电性能, 使该材料具有良好的综合性能。该合金具有高强度、高硬度、高电导率及高软化温度等特性。在焊接过程中是普通电极寿命的 5 倍以上。是目前优异的电极材料。



1. Copper Baseplate for heat dissipation

Includes Pin-fin and flat baseplates. Highlights of our expertise: Stable cold precision forging process; the mold is durable; there are many unique techniques in the key processes; the whole process is self-built; we have rich experience in mass production and in working with major companies; we focus on the industry for more than 30 years, with a production capacity in the forefront of the industry, significant cost advantages and strong supply guarantee capacity.

2. Molybdenum-Copper SPACER

Our molybdenum copper alloy can achieve almost complete compactness, no defects, fine grain structure, airtightness $< 5 \times 10^{-9} \text{Pa/m}^3 \cdot \text{s}$ (with helium leak detection mass spectrometer), comparable to any first-class products in the world.

3. Oxide Dispersion Strengthened Copper/Aluminum

Alumina (Al_2O_3) nanoparticles render high temperature strength and hardness to the alloy with no significant reduction of the conductivity, so the alloy has good comprehensive performance even under an environment up to 1000°C .

展位号 / Booth No: A27

合肥圣达电子科技实业有限公司

Hefei Shengda Electronics Technology Industry Co., Ltd



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No.206, Xiangzhang Avenue, High-tech Zone, Hefei, China

网址 / Web: <http://www.sdetec.com/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

合肥圣达电子科技实业有限公司专注先进电子封装外壳、电子功能材料事业的发展, 服务于航空航天、光纤通信、数据中心、汽车电子、消费电子、人工智能、新能源等产业领域。为客户提供包括热管理、信号传输、气密封装、表面防护等在内的整套技术解决方案, 覆盖金属封装外壳、陶瓷封装外壳、氮化铝粉、生料带、高导热氮化铝基板、陶瓷覆铜板、电子浆料等一系列高科技产品, 致力于建设成具有“国内卓越、国际一流”水准的专业化封装材料公司。

Hefei Shengda Electronics Technology Industry Co., Ltd(hereinafter referred to as Shengda Technology) focuses on the development of advanced electronic packages and electronic functional materials, serves in the fields of aerospace, optical fiber communication, data center, automobile electronics, consumer electronics, artificial intelligence and new energy, and provides customers with the whole set of technology solutions including heat management, data transmission, hermetic packaging and surface protection. Through the supply of a series of high technology products such as metal packages, ceramic packages, AlN powders, green tapes, high thermal conductive AlN substrates, DBC and electronic pastes, Shengda Technology dedicates itself to becoming a professional company of packaging materials which enjoys the recognition of domestic excellence and international first-class level.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management

产品介绍 / Products Description:

陶瓷覆铜板



Al_2O_3 -DBC, AlN-AMB, Si_3N_4 -AMB, ZTA-DBC

展位号 / Booth No: E20

上海贺利氏工业技术材料有限公司

Heraeus Materials Technology Shanghai Ltd

Heraeus
Electronics

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网址 / Web: https://www.heraeus.cn/cn/het/home_electronics/home_electronics.html

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

贺利氏电子是电子组装和封装材料的领先制造商。我们致力于为消费电子和电脑周边、汽车、LED、电力电子器件以及通信行业开发复杂材料解决方案。我们的核心业务涵盖：键合丝、组装机材料、厚膜浆料和陶瓷基板。

Heraeus Electronics are one of the leading manufacturers of materials for the assembly and packaging of devices in the electronics industry. We develop sophisticated materials solutions for consumer electronics and computing, automotive, LED, power electronics and communications. Our core competences include bonding wires, assembly materials, thick film pastes and substrates, and their integration into perfectly matched systems.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 能源储存系统 Power Quality & Energy Storage

产品介绍 / Products Description:

Condura™.ultra 无银活性金属钎焊 (AMB) 氮化硅基板

Condura™.ultra 无银活性金属钎焊 (AMB) 氮化硅基板, Condura™.ultra 是一种高性价比、高可靠性的无银活性金属钎焊氮化硅基板, 可以将氮化硅陶瓷与铜箔键合。它采用特殊工艺开发, 该工艺使用新的无银 AMB 技术来获得高性能氮化硅基板。

Die Top System (DTS)

DTS 能显著提高芯片连接的导电性、导热性和可靠性, 从而有效改善整个模块的性能。



Condura®.ultra is a cost efficient, highly reliable Ag-free AMB substrate that enables bonding silicon-nitride-based ceramics with copper foils. Condura®.ultra was developed using a special technique enabling high performance Si3N4 substrates by using new, Ag-free active metal brazing (AMB) bonding technology.

Die Top System (DTS)

DTS significantly improves the electrical, thermal and reliability performance of the die connection thus improving the whole module performance.

展位号 / Booth No: A25

Impact Innovations

impact

地址 / Add: Bürgermeister-Steinberger-Ring 1, 84431 Rattenkirchen, Germany

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邮箱 / E-mail: md@impact-innovations.com

网址 / Web: <https://impact-innovations.com/>

产品应用范围 / Scope of Applications:

工业电子 Industrial Electronics, 电力供应 Power Supply, 汽车工程 Automotive

公司简介 / Company Profile:

Impact Innovations is the global technology leader for industrial cold spray. Founded in 2010 and based in Germany, we are pioneers and innovators for customized solutions in the field of cold gas spraying, a highly innovative process for surface coating and additive manufacturing. Impact Innovations offers users from all over the world and various industries an extensive service and product portfolio that ranges from basic research and R&D services to application-specific system technology.

产品范围 / Topics:

散热管理 Thermal Management

产品介绍 / Products Description:

Impact Innovations offers Cold Spray solutions for advanced cooling of power electronics with copper cold sprayed aluminum heatsinks & busbars



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展位号 / Booth No: F08

日立能源

Hitachi Energy



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电话 / Tel: +86 18101197960

邮箱 / E-mail: peng.hong@hitachienergy.com

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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电力供应 Power Supply, 电机工程 Electrical Engineering, 风能 Wind Energy

公司简介 / Company Profile:

我们的电力电子之旅始于 100 年前, 在瑞士伴随汞整流器的生产而开始。今天, 我们拥有最多多样化的半导体器件, 包括晶闸管、二极管、GTO、IGCT、, MOSFET 和 IGBT。我们在瑞士伦茨堡和捷克布拉格拥有自己的设施及研究团队, 以继续推动使用硅 (Si) 和碳化硅 (SiC) 技术创新下一代电力电子设备。

我们先进的半导体技术带来对 HVDC 输电系统进行前所未有的控制。我们是驱动高速列车、地铁和柴电机车的牵引变流器的核心器件。抽水泵、风机、辊道、起重机和绞车等行业与我们息息相关。全世界都在倡导更为环保的出行方式, 我们的产品为下一代电动汽车提供强大动力。

我们是日立能源半导体公司, 与您一道共同塑造未来更智能、更环保的社会。

欲了解更多信息, 请联系我们或访问

www.hitachienergy.com/semiconductors

Our power electronics journey started in Switzerland over 100 years ago with the production of mercury-arc rectifiers. Today, we have one of the most diverse semiconductor portfolios that includes thyristors, diodes, GTOs, IGCTs, MOSFETs and IGBTs, which are manufactured at our own facilities in Lenzburg, Switzerland and Prague,

Czech Republic. Our research team continues to push the boundaries of what is possible, using silicon (Si) and silicon carbide (SiC) technology to innovate the next generation of power electronics devices.

Our advanced semiconductor technology brings unprecedented control to HVDC transmission systems. We are the heart of traction converters that drive high speed trains, metros and diesel-electric locomotives. Pumps, fans, roller tables, hoist and winches found throughout industry rely on us, and the world is able to enjoy greener mobility because we power the next generation of e-vehicles.

We are Hitachi Energy – Semiconductors and with you we can shape the smarter, greener society of the future. For more information, please contact us or visit www.hitachienergy.com/semiconductors

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1)Hitachi Energy StakPak 是大功率电网基础设施应用的行业标准。它凭借无与伦比的可靠性、最高的功率密度和机械坚固性赢得了一席之地。

为了支持不断提高高压直流输电站的额定功率和效率, 日立能源公司正在开发在 4.5 kV 阻断电压下具有 5000A 和 6000A 前所未有的额定电流的 StakPak 器件。

2)RoadPak 是我们最新的创新解决方案, 适用于所有电子交通应用。它使得能够设计具有最低总杂散电感的转换器, 得益于最新一代的 SiC MOSFET 芯片组, 以及其引脚基板封装设计而增强的液体冷却性能。

3)IGCT 自推出以来的 25 年内, 通过满足当今苛刻应用的要求, 已成为大功率变频器的首选半导体。

IGCT 的应用有很多: 海上风力发电、中压驱动器 (MVD)、静态变频器 (SFC)、船用驱动器、脉冲功率 (PP) 和 STATCOM, 等等。



1)The Hitachi Energy StakPak is the industry standard for highest power grid infrastructure applications. It earned its place by offering unmatched reliability combined with the highest power density and mechanical robustness.

To support the never-ending quest to increase the power rating and the efficiency of the HVDC stations, Hitachi Energy is developing StakPak devices with unprecedented current ratings of 5000 A and 6000 A at a blocking voltage of 4.5 kV.

2)The RoadPak is our newest innovative solution for all e-mobility applications. It enables the design of converters with lowest overall stray inductance, thanks to the latest generation of SiC MOSFET chipset and enhanced liquid cooling performance due to its pin-fin baseplate.

3)Within 25 years of its introduction, the IGCT has established itself as the semiconductor of choice for high-power frequency converters by meeting the requirements of today's demanding applications.

The number of applications featuring IGCTs are many: off-shore wind generation, medium-voltage drives (MVDs), static frequency converters (SFC), marine drives, pulse power (PP) and STATCOMs, etc.

展位号 / Booth No: G24

日立高新技术 (上海) 国际贸易有限公司

Hitachi High-Tech (Shanghai) Co., Ltd.

HITACHI
Inspire the Next

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网址 / Web: <https://www.hitachi-hightech.com/cn/zhcn/>

产品应用范围 / Scope of Applications:

自动化 Automation, 工业电子 Industrial Electronics, 消费电子 Consumers Electronics

公司简介 / Company Profile:

日立高新技术以成为深受客户信赖的企业为目标, 通过开展基于高新技术解决方案的 "创造价值" 为基础的事业活动, 为社会的发展进步贡献力量。本公司在本着 "公正透明" 的诚信理念进行经营活动, 在实现持续成长的同时, 也充分重视在环保上与 "环境的协调"。作为充满热情和自豪感的企业市民, 为实现富裕的社会尽自己的力量。

Hitachi High Tech aims to become a trusted enterprise by customers, and contributes to the development and progress of society by carrying out business activities based on "creating value" through high-tech solutions. Our company operates with the integrity concept of "fairness and transparency", and while achieving sustainable growth, we also attach great importance to the coordination between environmental protection and the environment. As passionate and proud corporate citizens, contribute our efforts to achieve a prosperous society.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 配置和子系统 Assemblies and Subsystems

产品介绍 / Products Description:

超声波检测设备, 电气特性检测设备 CSAM Power Device Tester



展位号 / Booth No: F46

黄山市闾华电子有限责任公司

Huangshan Changhua Electronics Co., Ltd



地址 / Add: 安徽省黄山市祁门县龙门坦工业园

Longmentan Industrial Park, Qimen County, Huangshan City, Anhui Province

电话 / Tel: 0559-4519690

邮箱 / E-mail: 920449426@qq.com

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

公司成立于 2001 年 11 月, 位于祁门县城东工业园, 占地面积 10 亩, 建筑面积达 10000 平方米, 公司员工 70 人, 总资产 6000 万元, 年产值 4500 万元, 年利税 500 多万元。公司研发的“环保节能特大功率整流桥组”被国家科技部等四部委认定为“国家重点新产品”、安徽省高新技术产品、获黄山市科学技术三等奖、拥有 40 多项国家专利, 其中发明专利 5 项。公司生产的“闾华”牌产品有: 键合工艺模块系列、普通模块系列、大小功率整流桥系列、无刷电机专用模块系列、平板系列、太阳能专用模块系列等六大系列 300 多个品种。

The company was established in November 2001, located in the east industrial park of Qimen County, covering an area of 10 acres, with a building area of 10000 square meters, 70 employees, total assets of 60 million yuan, annual output value of 50 million yuan, and annual profits and taxes of over 5 million yuan. The "environmental protection and material saving super power rectifier bridge group" researched and developed by the company has been recognized as "national key new product" by four ministries and commissions including the Ministry of Science and Technology of the People's Republic of China, high-tech product of Anhui Province, third prize of Mount Huangshan Science and Technology Award, more than 40 national patents, including 5 invention patents. The "Changhua" brand products produced by the company include six major series of over 300 varieties, including bonding process module series, ordinary module series, high and low power rectifier bridge series, brushless motor dedicated module series, flat panel series, and solar dedicated module series.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 传感器 Sensors, 智能运动 Intelligent Motion, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 测试和测量 Test & Measurement, 开发软件 Development Software, 信息与服务 Information & Services

产品介绍 / Products Description:

IGBT 模块系列, 键合工艺模块系列, 焊接工艺模块系列, 压接式模块系列



IGBT module series, bonding process module series, welding process module series, crimping module series

展位号 / Booth No: B21

黄山申格电子科技有限公司

Huangshan Shenge Electronic Technology Co., Ltd.

SHENGE

地址 / Add: 安徽省黄山市屯溪区凤山路 1 号

NO.1 Fengshan Road, Tunxi, Huangshan, Anhui, 245000, China

电话 / Tel: +86 13917478433

邮箱 / E-mail: ymm@shengecap.com.cn

网址 / Web: https://shengecap.com/

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

黄山申格电子科技有限公司（新三板挂牌 873610）是一家专业从事薄膜电容器研发、生产、销售和服務的高新技术、安徽省级专精特新企业，由上海申格公司于 2012 年投资兴建。“申格电容”自 1996 年成立以来，始终专注于薄膜电容的各种应用领域，现主要产品有电机启动运转电容、脉冲储能电容、光伏风能逆变器电容、直流充电桩电容及电驱相关定制款电容等。

公司的核心竞争力来自于公司优质的产品品质、良好的行业口碑、长期的技术积累以及对客户的快速响应能力。拥有成熟的质量管理体系 ISO9001、IATF16949、ISO 14001，产品获得多个国际认证和权威机构的测试 CQC、TUV、UL、SGS /RoHS，获安徽省企业研发中心资质。至今已生产超过 8000 万电容，销往全球市场，成为多个细分行业隐形冠军和独家供应商。我们期待未来在更多的市场和您携手并进，做您信赖的伙伴！

SHENGE Capacitor is a professional capacitor manufacture since 1996. Our Shanghai and Yellow Mountain factories provides more than 12 million capacitors a year to North and Latin America, Japan, Europe, South East Asia and Taiwan. Shenge has 16949 and ISO certified and all products has been approve by UL, TUV, CQC, IRAM, and environment friendly RoHS. As a Taiwan company our core value is to be our customer's reliable partner in Quality, Delivery and also in Price. For more information about us please contact our friendly customer representative or visit our web site on: www.shengecap.com

产品范围 / Topics:

被动元件 Passive Components

产品介绍 / Products Description:

干式直流滤波电容（定制款）

直流支撑电容

缓冲吸收电容

交流滤波电容

高频谐振电容

DC-Link Capacitor (Customized Products)

DC-Link Capacitor

Snubber Capacitor for IGBT

AC filter Capacitor

High Frequency Resonant Capacitor



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展位号 / Booth No: D19**爱微 (江苏) 电力电子有限公司****iA (iangsu) Power Electronics Co., Ltd**

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地址 / Add: 江苏省盐城市经济技术开发区盐澳东路 99 号 9 幢东方之洲 C7 标准厂房 1, 2 层
C7-No.99, Yandu East Road, Yancheng Economic and Technological Development Zone, Jiangsu,
China

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邮箱 / E-mail: sales@aiweipower.com

网址 / Web: <http://iape-js.com/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility

公司简介 / Company Profile:

爱微 (江苏) 电力电子有限公司 (iAPE) 是一家由盐城经济技术开发区元嘉半导体产业投资基金和韩国上市公司 iA 合资组建的功率半导体中韩合资企业, 致力于为中国汽车客户提供特有的功率半导体解决方案。公司 2019 年成立于江苏盐城, 注册资金 9300 万美元, 全资拥有韩国 iA Powertron 公司 (iAPT), 目前盐城团队由经验丰富的韩国和国内半导体专家组成。首条产线于 2020 年 10 月调试完成, 并于 2021 年全面下线批量交付国内汽车客户。长久以来, iA 作为现代摩比斯的供应商一直为韩国的汽车产业提供可靠稳定的功率模块, 应用于电子助力转向及热管理系统。基于向中国客户提供优质的产品为目标, 爱微 (江苏) 电力电子有限公司已完成盐城工厂、上海销售中心以及南京研发中心的建立, 开始全力服务于客户对功率模块、解决方案及定制化产品的需求。目前已在国内客户 EPS, 电子水泵、油泵, 电动空调压缩机等产品上获得应用, 并在与一些重点客户展开深度定制化产品。

iA Power Electronics Co., Ltd. (iAPE) is a power semiconductor joint venture established by the Yancheng government fund and the Korean listed company iA, dedicated to providing unique power semiconductor solutions for Chinese automotive customers.

iAPE was established in Yancheng, Jiangsu Province in 2019 with a registered capital of US\$93 million and wholly-owned the Korean company iA Powertron (iAPT). Currently, our Yancheng team is composed of experienced semiconductor experts from South Korea and the mainland. The first production line is established in October 2020 and start to mass production deliver to domestic automotive customers in 2021.

For a long time, iA, as a supplier of Hyundai Mobis, has been providing reliable and stable power modules for the Korean automobile industry. The application include electronic power steering, battery pack and thermal management system.

Based on the goal of providing high-quality products to Chinese customers, iA Power Electronics Co., Ltd. has completed the establishment of the Yancheng factory, the Shanghai sales center and the Nanjing R&D center. We have begun to serve Chinese customers on power modules, solutions and customized products. At present, our module has been applied to domestic customers' EPS, electric water pumps, electric oil pumps, electric compressors and other products. iAPE is also collaborating with some key customers to develop customized products.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

- 1.12V Module Control- EPS/EOP/EWP/ECF/E-relay
2. 新能源汽车空调控制系统用模块
3. 大功率电动摩托控制器模块



	MOSFET	40V / 210A&170A
	MOSFET	40V / 230A
	MOSFET	40V / 270A&170A
	MOSFET	40V / 240A&170A
	MOSFET	40V / 200A&150A
	MOSFET	80V / 900A 40V / 800A
		40V / 180A

	IGBT	650V / 30A&50A
	IGBT	1250V / 40A
	SiCMOSFET	1200V 50A
	IGBT IPM	650V / 30A&50A
	IGBT	1200V/40A IGBT
	<u>SiCMOSFET</u>	1200V/50A <u>SiCMOSFET</u>
	IGBT	750V / 300A IGBT 1200V / 200A IGBT
	<u>SiCMOSFET</u>	1200V / 9mΩ <u>SiCMOSFET</u>
	<u>SiCMOSFET</u>	1200V / 90A&130A

- 1.12V Module Control-- EPS/EOP/EWP/ECF/E-relay
2. Modules for new energy vehicle air conditioning control system
- 3.High Power Electric Motorcycle Controller Module

展位号 / Booth No: F42

钢泰公司

Indium Corporation



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邮箱 / E-mail: China@indium.com

网址 / Web: <http://indiumchina.cn/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

钢泰公司是全球领先的材料精炼商、熔炼商、制造商和供应商, 服务于全球电子、半导体、薄膜和热管理市场。其产品包括焊锡制品和助焊剂等焊接材料、硬钎焊、导热界面材料、溅射靶材、镓铟锡等金属和无机化合物, 以及 NanoFoil® (纳米材料)。钢泰公司成立于 1934 年, 在中国、印度、德国、马来西亚、新加坡、韩国、英国和美国均设有技术支持机构和工厂。

Indium Corporation is a premier materials refiner, smelter, manufacturer, and supplier to the global electronics, semiconductor, thin-film, and thermal management markets. Products include solders and fluxes; brazes; thermal interface materials; sputtering targets; indium, gallium, germanium, and tin metals and inorganic compounds; and NanoFoil®. Founded in 1934, the company has global technical support and factories located in China, India, Germany, Malaysia, Singapore, South Korea, the United Kingdom, and the USA.

产品范围 / Topics:

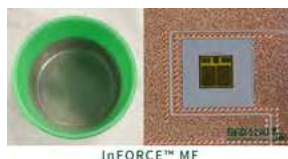
功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management

产品介绍 / Products Description:

产品 1:

InFORCE™MF

InFORCE™MF 是一款用于第三代半导体芯片加压银烧结膏。InFORCE™MF 金属含量高, 金属比例 >90%, 有机物少, 提升印刷性能。此外, InFORCE™MF 还具有快速预烘干、烧结过程中挥发物质少、贴装互连层厚度一致性高的优点。



InFORCE™MF

产品 2:

InFORCE™29

加压铜烧结膏 InFORCE™29 为高导热导电连接材料, 适合加压烧结应用, 可在氮气、真空、甲酸或氢气等氛围烧结。该烧结材料可用于金、银和铜多种金属界面, 可印刷或点胶, 且实验验证在裸铜上的连接强度高于金银等贵金属镀层。使用加压烧结铜, 无须专为芯片或 AMB/DBC 做金或银镀层。剪切强度在三种界面上均大于 40MPa, 且具有高可靠性, 通过 TCT (-40-175°C) 3000 循环测试和 TST (-65-150°C) 3000 循环测试。适用于功率模块芯片和模块 - 散热器贴装。



InFORCE™29

产品 3:

Indalloy®301 LT

Indalloy®301 LT 低温无铅焊料制成预成型焊片, 可在低于标准无铅焊料熔点温度下完成回流。Indalloy®301 LT 焊片无需改变工艺, 热管理性能远优于导热脂、硅树脂、PCM 等材料, 是成熟的、易于大规模生产的直接替代方案。特别是在塑封模块到与散热器焊接应用中, Indalloy®301 LT 焊片方案回流峰值温度低于 215°C, 降低了模块内部芯片、元件以及塑封料受损和出现分层的风险。此外, 更低的回流温度可以缓解焊接过程中塑封模块翘曲和热膨胀系数失配问题, 还降低了能耗。-40/+125°C 热冲击测试结果表明, Indalloy®301 LT 低温无铅焊片具有较高的延展性和机械强度, 可靠性与标准无铅焊料相当。



Indalloy®301 LT

Package-Attach Solder
Preform Technology

Specifically Designed to Reduce Process
Temperatures for Power Electronics
Package-Attach Applications

展位号 / Booth No: D01

英飞凌科技

Infineon Technologies AG



地址 / Add: 上海市浦东新区川和路 55 弄 4 号楼

No.4 Building, 55 Chuanhe Road, Pudong new area, Shanghai

网址 / Web: <https://www.infineon.com/cms/cn/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 电机工程 Electrical Engineering, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

半导体对于应对当今时代的能源挑战和塑造数字化转型至关重要。正因如此，英飞凌致力于积极推动低碳化和数字化进程。作为全球功率系统和物联网领域的半导体领导者，我们助力打造引发行业变革的解决方案，以实现绿色高效的能源、环保安全的出行以及智能安全的物联网。我们让生活更加便利、安全和环保。携手我们的客户和合作伙伴，共同创造更加美好的未来。

英飞凌设计、研发、生产并销售范围广泛的半导体和基于半导体的解决方案，聚焦汽车、工业和消费电子等行业的关键市场。其产品多种多样，从标准元器件，到面向数字、模拟和混合信号应用的特殊元器件，再到专为客户打造的特定解决方案，一直到相应的软件，应有尽有。

Semiconductors are crucial to solve the energy challenges of our time and shape the digital transformation. This is why Infineon is committed to actively driving decarbonization and digitalization. As a global semiconductor leader in power systems and IoT, we enable game-changing solutions for green and efficient energy, clean and safe mobility, as well as smart and secure IoT. We make life easier, safer, and greener. Together with our customers and partners. For a better tomorrow.

Infineon designs, develops, manufactures, and markets a broad range of semiconductors and semiconductor-based solutions, focusing on key markets in the automotive, industrial, and consumer sectors. Its products range from standard components to special components for digital, analog, and mixed-signal applications, all the way to customer-specific solutions and the appropriate software.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1. CoolSiC™ MOSFET G2

凭借 CoolSiC™ MOSFET G2 技术，我们再次在降低功耗方面取得了巨大突破。例如，更加高效的 G2 芯片与更为先进的封装技术相结合，可以将电动汽车快速充电站的功率损耗比上一代产品降低 10%。CoolSiC™ MOSFET G2 在光伏、储能、电机驱动和工业电源等其他应用领域，也具有类似的优势。

过去三年中，碳化硅市场的蓬勃发展，为 CoolSiC™ MOSFET G2 开辟了广泛的应用领域，包括工业、光伏、储能，以及电动汽车充电领域。CoolSiC™ MOSFET G2 有望开辟全新的应用领域。在新一代产品中，我们再次为分立器件提供标准工业封装，例如，TO-247、D2PAK 7-pin，以及顶部散热封装。由此可见，第二代 CoolSiC™ MOSFET 是真正意义上的全能型产品，用途非常广泛。



2. 为 AI 数据中心提供先进的高能效电源装置产品路线图

人工智能（AI）的影响推动了全球数据中心能源需求的日益增长，凸显了为服务器提供高效可靠能源供应的必要性。英飞凌科技股份有限公司已翻开 AI 系统能源供应领域的新篇章，发布了电源装置（PSU）产品路线图。该路线图在优先考虑能源效率前提下，专为满足 AI 数据中心当前和未来的能源需求而设计。

通过实现更高的 PSU 性能等级，英飞凌可帮助云数据中心和 AI 服务器运营商降低系统冷却能耗。这些创新的 PSU 能减少功耗和二氧化碳排放，从而降低总体运营成本。功能强大的 PSU 不仅能用于未来数据中心，还可取代服务器中现有的电源装置并提升效率。

除了已推出的输出功率为 3 kW 和 3.3 kW 的 PSU 外，全新 8 kW 和 12 kW PSU 也将在今后的将来进一步提高 AI 数据中心的能效。借助 12 kW 参考板，英飞凌即将推出全球首款达到这一性能水平的电源装置，为未来数据中心供电。



PSU 产品界面图

3. HybridPACK Drive G2 混合功率模块

- › HybridPACK Drive G2 混合功率模块集成了 EDT3 IGBT 与 CoolSiC G2 Mosfet 芯片，支持 400V 整车系统应用
- › 直接水冷并集成了片上温度传感器功能
- › 匹配下一代具备更快的开关速度及短路保护时间的 EiceDRIVER 系列驱动芯片
- › 评估套件可支持 200kW 主驱电机逆变器应用
- › 单一驱动极致降低了功率模块的损耗
- › Si 与 SiC 智能组合实现了成本与效率的最佳平衡



展位号 / Booth No: D78

同济大学铁道与城市轨道交通研究院

Institute of Rail Transit, Tongji University



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No. 4800 Caoan Road, Jiading District, Shanghai

电话 / Tel: 15021530474

邮箱 / E-mail: 23002@tongji.edu.cn

网址 / Web: <https://railway.tongji.edu.cn/main.htm>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电机工程 Electrical Engineering, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

同济大学铁道与城市轨道交通研究院集中了同济大学在铁路和城市轨道交通领域的专业人才优势和基础设施优势, 致力于铁路与城市轨道交通的教学和科研; 致力于发挥同济大学各学科的优势, 为我国的铁路与城市轨道交通事业做出贡献; 致力于开拓创新, 发展便捷、环保、经济和现代化的公共交通系统。

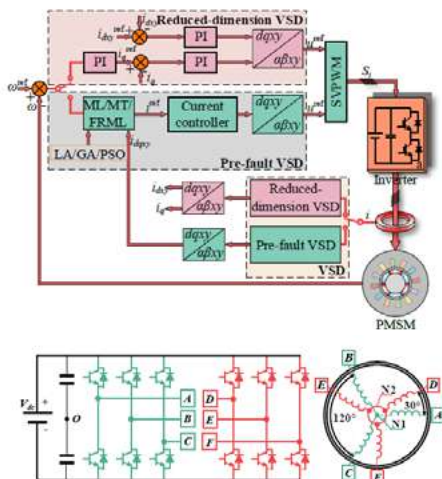
The Institute of Rail Transit of Tongji University concentrates Tongji University's professional talents and infrastructure advantages in the fields of railway and urban rail transit, and is committed to the teaching and scientific research of railway and urban rail transit; committed to giving full play to the advantages of various disciplines of Tongji University, to contribute to my country's railway and urban rail transit; committed to pioneering and innovation, and developing a convenient, environmentally friendly, economical and modern public transportation system.

产品范围 / Topics:

能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 测试和测量 Test & Measurement, 信息与服务 Information & Services

产品介绍 / Products Description:

1. 六相电机的原理拓扑
2. 六相电机的容错控制框图
3. 技术咨询



1. Dual three-phase motor drive topology with isolated neutral point
2. Fault-tolerant control diagram of multiphase motors under OPF
3. Technical Business Consulting

展位号 / Booth No: H06

岩崎通信株式会社

IWATSU ELECTRIC CO., LTD.

IWATSU

地址 / Add: 168-8501 日本东京都杉并区久我山 1-7-41

7-41, Kugayama 1-Chome, Suginami-Ku, Tokyo, 168-8501 Japan

电话 / Tel: +81-3-5370-5483

邮箱 / E-mail: info-tme@iwatsu.co.jp

网址 / Web: <https://www.iwatsu.com/tme/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电力供应 Power Supply, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

自 1952 年开发日本国产第一台示波器以来, IWATSU 的电子测量仪器业务已有 70 年的历史。我们不断研发及升级各种电子测量仪器以适应电子工业的发展。近年来, 为响应节约能源及保护环境需求行业各公司越发追求产品的低损耗、高效率。我们的各类测量仪器可对相关功率器件进行高精度测试, 从而为电力电子技术的发展做出贡献。

IWATSU have been in TME business for 70 years, since launching the first Japan made oscilloscope in 1952. We have continuously developed and upgraded a variety of test and measurement equipment to keep pace with the development of the electronics industry. In recent years, in response to the need to conserve energy and protect the environment, companies in the electrical industry have increasingly sought to make their products low-loss and high-efficiency. Our test and measuring instruments can provide high-precision measurement of relevant power devices, making a contribution to the development of power electronics.

产品范围 / Topics:

测试和测量 Test & Measurement

产品介绍 / Products Description:

我们已推出多种测量仪器, 半导体曲线图仪 CS-8000 系列集多种功能于一体, 采用人性化设计, 操作便捷。高压源最高可达 5kV, 电流源最高可达 2kA。具有脉冲输出、码型门极输出、超小电流高精度测试等优越性能, 适用于 SiC 和 GaN 等功率器件静态特性测试。

数字示波器 DS-8000 系列, 最大频率带宽 1GHz、最大通道数 8、采样速度 5GS/s、垂直分辨率 12-bit, 搭配分析软件 DS-821 使用, 不仅能实现高分辨率下对高电压、大电流信号的动态特性进行准确测量, 还可根据器件特点对分析方法进行改变。

另外, 我们还提供多种探头产品, 其中, 频率带宽 1.5GHz, CMRR 180dB 的 FF-1500 光隔离探头对搭载高速运转 GaN/SiC 的逆变器电力转换和电源电路中器件 ON/OFF 开关实际信号的测量用处极大。同时适用于高侧门极信号测量及通过分流电阻两端电压测量电流。



We have launched a variety of test and measuring instruments. One is our semiconductor curve tracer CS-8000 Series, combining a variety of functions in one, with a humanizing design, easy to use. It is equipped with a high voltage source up to 5kV and high current source up to 2kA, having superior performance such as Pulse output, Gate pattern, small current high-precision measurement, etc. It is suitable for static characterization measurement of semiconductor power devices like SiC and GaN.

Digital oscilloscope DS-8000 Series, the max. frequency bandwidth of 1GHz, the max. channel of 8, sampling rate of 5GS/s, vertical resolution of 12-bit. With the analysis software DS-821, it is not only to make high voltage and current signals dynamic characterization measurements accurately, but also according to the characteristics of the devices to change the analysis method.

Furthermore, we also have a wide range of probes, such as optically isolated probe FF-1500 with 1.5GHz bandwidth and 180dB CMRR. It is extremely useful for measuring the actual signals of ON/OFF switching in power conversion and power supply circuits, such as inverters equipped with high-speed GaN/SiC. And it is also suitable for high side gate signal measurement and current measurement from the voltage at both ends of a shunt resistor.

展位号 / Booth No: B10

江苏捷捷微电子股份有限公司

Jiangsu JieJie Microelectronics Co., Ltd.



地址 / Add: 江苏省启东市经济开发区钱塘江路 3000 号

No. 3000, Qiantang River Road, Economic Development Zone, Qidong, JiangSu, China

邮箱 / E-mail: sales@jjwdz.com

网址 / Web: https://www.jjwdz.com/

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

在过去的近 30 年里, 捷捷微电一直致力于生产卓越的产品, 成为功率半导体行业领先的集成器件制造商之一。我们秉持着技术创新、卓越品质和高度灵活性的三要素, 坚信这是帮助客户成功和实现我们持续增长的关键, 为客户、股东、员工和社会创造价值。2017 年, 捷捷微电在深圳证券交易所上市 (股票代码: 300623)。

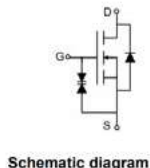
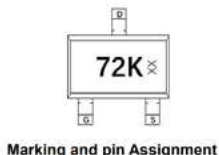
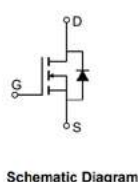
We at JJMICROELECTRONICS have been committed to manufacturing excellence for nearly 30 years, making us one of the leading integrated device manufacturers in the power semiconductor industry. To create value for customers, shareholders, employees and communities, we rely on technological innovation, superior quality, and competitive agility as our pillars of customer success. JJM has been listed on the Shenzhen stock Exchange since 2017 (stock code: 300623).

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1. JM12N7002KS 是一款中压 N 沟道的 Trench MOSFET 产品, 采用 SOT-23 的封装, 可广泛应用于电池操作系统、直接逻辑级接口、固态继电器等应用领域。
2. JM12K3005A 是一款低压 N 沟道的 Trench MOSFET 产品, 采用 TO-252-3L(DPAK) 的封装, 可广泛应用于负载开关、PWM 应用程序、电源管理等应用领域。



1. JM12N7002KS is a Trench MOSFET product of medium voltage N channel, using the package of SOT-23, which can be widely used in battery operating system, direct logic level interface, solid state relay and other application fields.

2. JM12K3005A is a low-voltage N-channel Trench MOSFET product, using TO-252-3L(DPAK) packaging, which can be widely used in load switches, PWM applications, power management and other applications.

展位号 / Booth No: G40

江苏集芯先进材料有限公司

Jiangsu Jixin Advanced Materials Co., Ltd



地址 / Add: 中国江苏省徐州高新技术产业开发区电子信息产业园二期二号厂房

Building 2, Electronic Information Industrial Park Phase II, Xuzhou High-tech Industrial Development Zone, Jiangsu Province, China

邮箱 / E-mail: zhangjiaxin@gclsemicon.com

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply, 汽车工程 Automotive

公司简介 / Company Profile:

江苏集芯先进材料有限公司（以下简称“集芯先进”）坐落于徐州高新区，是一家致力于第三代半导体 SiC 材料研发与制造的高科技企业，一期建设有效产能 15 万片 / 年。

集芯先进通过自主研发和技术整合，形成自有专利近 100 件，其中发明专利近 50 件，专利范围覆盖 SiC 粉料合成、涂层制备、热场设计、长晶工艺和衬底加工等制造全流程，形成 SiC 材料生产的优势闭环。目前集芯先进拥有来自全球知名高校的数十名硕博理工科优秀人才，以及来自全球顶尖第三代半导体公司的优秀团队。

集芯先进致力于成为全球卓越的半导体材料制造商，为客户提供最有竞争力的 SiC 材料。

Jiangsu Jixin Advanced Materials Co., Ltd (hereinafter referred to as "GCL Semi") is located in Xuzhou National Hi-Tech Industrial Development Zone, is a high-tech enterprise dedicated to the R&D and manufacturing of third-generation semiconductor Silicon Carbide (SiC) materials, with an effective production capacity of 150,000 wafers/year in the first phase of construction.

Through independent R&D and technology integration, GCL Semi has formed nearly 100 patents of its own, including almost 50 invention patents, which cover the whole manufacturing process of SiC powder synthesis, coating preparation, thermal field design, crystal growth and substrate processing, forming an advantageous closed-loop for the production of SiC substrate materials.

At present, GCL Semi has dozens of outstanding talents in science and technology with doctoral and master's degrees from renowned universities, as well as an outstanding team from the world's top third-generation semiconductor companies.

GCL Semi is committed to becoming a globally renowned semiconductor material manufacturer, providing customers with the most competitive SiC materials.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

不低于 6N 的高纯 SiC 合成粉料，6/8 英寸 SiC 籽晶、晶锭及衬底片，以及高纯石墨基碳化钽涂层。



High-purity SiC synthetic powders of not less than 6N, 6/8-inch SiC seed, crystals and wafers, as well as high-purity graphite-based tantalum carbide coatings.

展位号 / Booth No: A02

江苏中科科化新材料股份有限公司

Jiangsu Zhongke Kehua New Materials Co., Ltd.



地址 / Add: 江苏省泰州市海陵工业园区梅兰东路 70 号

70 Meilan East Rd., Hailing, Taizhou, Jiangshu

电话 / Tel: +86-0523-86659586

邮箱 / E-mail: sunhaiping@scienchem.com.cn

网址 / Web: http://www.scienchem.com.cn

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

江苏中科科化新材料股份有限公司是一家专业从事半导体封装材料——环氧塑封料研发、生产和销售的高新技术企业。公司在北京、泰州分别设立研发中心, 围绕环氧塑封料产品开发与应用建设了较为完善的研发平台, 并已凝聚起一支强大的研发团队, 有博士、硕士 20 多人。借助中科院化学所研发平台和人才优势, 紧盯半导体封装技术前沿与市场需求, 重点聚焦高密度集成电路先进封装、汽车电子、第三代半导体等应用领域进行环氧塑封料的开发。

公司地处江苏省泰州市, 占地 85 亩, 已建成 7 万平方米厂房及附属设施, 拥有 8 条环氧塑封料生产线, 年产能超过 18000 吨, 满足高端环氧塑封料生产需要。后续将持续投资建设高水平环氧塑封料生产线, 规划建成环氧塑封料年产能 3 万吨以上。

Jiangsu Zhongke Chemical New Materials Co., Ltd. is a high-tech enterprise specializing in the research and development, production, and sales of semiconductor packaging materials - EMC. The company has established R&D Centers in Beijing and Taizhou respectively, and has built a relatively self-contained R&D platform for the development and application of EMC. It has gathered a strong R&D team with more than 20 Ph.Ds and masters. With the help of the R&D platform and talent advantages of the Institute of Chemistry, Chinese Academy of Sciences, we closely focus on the forefront of semiconductor packaging technology and market demand, with a particular emphasis on the development of EMC for advanced packaging of high-density integrated circuits, automotive electronics, third-generation semiconductors and other application fields.

The company is located in Taizhou City, Jiangsu Province, covering an area of 85 acres with 70000 m² of factory buildings and ancillary facilities. There are 8 EMC production lines with an annual production capacity of over 18000 tons, meeting the production needs of high-end EMC. We will continue to invest in the construction of high-level EMC production lines, and plan to build an annual production capacity of EMC of over 30000 tons.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

可提供应用于不同封装型式、不同可靠性等级和不同应用领域的分立器件和集成电路封装用环氧塑封料, 其主要功能是为芯片提供绝缘、防潮和机械保护。

We can offer all kinds of EMC solutions for different packages and reliability requirement and application field including discrete and IC, its main function is to provide insulation, moisture resistance and mechanical protection for chips.



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展位号 / Booth No: H21**江西江南新材料科技股份有限公司****Jiangxi Jiangnan New Material Technology Co., Ltd.**

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地址 / Add: 江西省鹰潭市月湖区白露街道江南路 6 号

No.6, Jiangnan Road, National High-tech Zone, Yingtan City, Jiangxi Province

电话 / Tel: +86-0701-6296999

邮箱 / E-mail: wangxianliang@jiangnancopper.com

网址 / Web: https://www.jiangnancopper.com

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 航空航天 Aerospace, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive

公司简介 / Company Profile:

江西江南新材料科技股份有限公司, 成立于 2007 年, 建设有 4 个生产工厂基地, 专注于电子信息产业铜基新材料的研发与制造, 主要生产氧化铜粉及铜化学品、阳极磷铜、高纯无氧铜(纯铜粒)、铜基散热材料(埋嵌铜)等四个产品系列。

Jiangxi Jiangnan New Material Technology Co., Ltd. was established in 2007, has built four production plant bases. We are dedicated to the research and development of copper-based new materials for the electronic industry. Our main products include Copper Oxide & Copper chemicals, Copper Anode, Oxygen-free copper, Copper Coin, and more.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management

产品介绍 / Products Description:

铜基精密散热片, 一种电子散热专用材料, 含铜银量 99.98% 以上, 导热性好。主要应用于基站通讯、汽车电子、大功率工业控制 PCB 制造领域。采用定制化设计开发, 高精度 CNC 生产制造, 产品尺寸精度可达 0.01mm。满足客户差异性需求, 工艺成熟稳定, 可操作性强。



Copper Coin, a specialized material for electronic heat dissipation with excellent thermal conductivity, contains more than 99.98% of copper and silver. Mainly used in base station communication, automotive electronics, high-power industrial control PCB manufacturing. It is a customized product produced by high-precision CNC machine with dimensional accuracy up to 0.01mm. Different customer needs can be satisfied owing to stable process and strong operability.

展位号 / Booth No: H07

嘉兴嘉一电源科技有限公司

Jiaxing Jiayi Power Supply Technology Co., Ltd.



地址 / Add: 浙江省嘉兴市嘉善县振中东路 58 号

No. 58, Zhen Chinese Eastern Railway, Jiashan County, Jiaxing City, Zhejiang province

电话 / Tel: 0573-84125557

邮箱 / E-mail: lsj@jiayidy.com

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

嘉兴嘉一电源科技有限公司位于浙江省嘉善县世界浙商工业园, 是一家专注于叠层母排、浸塑母排、水冷散热器、软连接、电抗器和相关产品研究、开发、生产及销售为一体的高新技术企业。

Jiaxing Jiayi Power Supply Technology Co., Ltd. is located in the world Zhejiang business industrial park, Jiashan County, Zhejiang province, it is a high-tech Enterprise which focuses on the research, development, production and sales of laminated busbar, impregnated busbar, water-cooled radiator, soft connection, reactor and related products.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 散热管理 Thermal Management, 传感器 Sensors, 配置和子系统 Assemblies and Subsystems, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 测试和测量 Test & Measurement, 开发软件 Development Software

产品介绍 / Products Description:

叠层母排是一种多层复合结构连接排, 可算是配电系统的高速公路。与传统的、笨重的、费时和麻烦的配线方式相比, 使用复合母线排可以提供现代的、易于设计、安装快速和结构清晰的配电系统。液冷散热器主要用于中高功率电子元器件的散热, 如服务器、变频器、逆变器、中高频电源 SVG、APF 等, 散热途径主要是通过热源与冷板直接接触进行热传导, 水冷板再与内部流动的冷却液通过传导与对流的方式将热量带走, 从而达到散热的目的。目前市场上常见的液冷板有压管型、钎焊型及摩擦焊等类型。



The laminated bus bar is a kind of multi-layer composite structure connecting bar, which can be regarded as the highway of power distribution system. In contrast to traditional, bulky, time-consuming and cumbersome wiring methods, the use of composite busbar can provide modern, easy to design, install fast and clear structure of the distribution system. Liquid-cooled radiators are mainly used for cooling medium and high power electronic components such as servers, inverters, inverters, medium and high frequency power supplies such as SVG, APF, etc., the way of heat dissipation is heat conduction through direct contact between heat source and cold plate, and heat is carried away by conduction and convection between water-cooling plate and cooling liquid. At present, the common types of liquid-cooled plate pressure tube, brazing and friction welding.

展位号 / Booth No: G19
暨革半导体 (东莞) 有限公司
Jig Semiconductor (DongGuan) Co., Ltd

JiG 工装夹具
JiG SEMI

地址 / Add: 东莞市松山湖高新区南山路1号中集智谷5号楼AB区
Building 5 of Zhongjizhigu, No. 1 Nanshan Road, Songshan Lake Park, Dongguan City, China
电话 / Tel: +86-18-102946480
邮箱 / E-mail: jack@jigsemi.com

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电力供应 Power Supply, 风能 Wind Energy

公司简介 / Company Profile:

功率半导体模块封装夹具解决方案

Power semiconductor module packaging fixture solutions

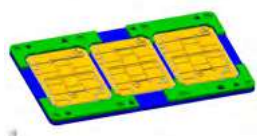
产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

DSC 模块自动化焊接夹具

SSC、DCM 焊接夹具



DSC SSC DCM JIG

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展位号 / Booth No: G10
晶佰源半导体 (山东) 有限公司
Jingbaiyuan Semiconductor (Shandong) Co., Ltd

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地址 / Add: 山东省枣庄市峰城区榴园镇科达西路 16 号
 No. 16 Keda West Road, Liuyuan Town, Yicheng District, Zaozhuang City, Shandong Province
 邮箱 / E-mail: jby@jby-semi.com
 网址 / Web: <https://www.jby-semi.com>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 通信 Communications, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

晶佰源半导体是一家专业从事功率模块研发、封装和测试的高新技术企业, 主要产品包括晶闸管模块、快恢复二极管模块、肖特基二极管模块、MOSFET 模块、IGBT 模块和碳化硅模块等。产品广泛应用于电能调节、电机驱动、光伏储能、逆变电源、新能源汽车、家用电器等领域, 市场前景广阔, 发展潜力巨大。

Jingbaiyuan Semiconductor is a high-tech enterprise specializing in the research and development, packaging, and testing of power modules. Its main products include thyristor modules, fast recovery diode modules, Schottky diode modules, MOSFET modules, IGBT modules, and silicon carbide modules. The product is widely used in the fields of electric energy regulation, motor drive, photovoltaic energy storage, inverter power supply, new energy vehicles, household appliances, etc., with broad market prospects and huge development potential.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

可控硅模块, IGBT 模块, 快恢复二极管模块, 肖特基二极管模块



Controllable silicon module, IGBT module, fast recovery diode module, Schottky diode module

展位号 / Booth No: E52

杰美捷韩国 (株式会社)

JMJKOREA CO., LTD.



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网址 / Web: http://www.jmjkorea.com

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 航空航天 Aerospace, 通信 Communications, 汽车工程 Automotive

公司简介 / Company Profile:

JMJ 是一家位于釜山的制造商, 主要生产电连接器材料、自动组装设备和功率模块 PKG。

JMJ 于 2022 年 10 月在釜山建成附加工厂后, 正在批量生产电动汽车用功率半导体模块。

我们正在成为材料、设备和模块 PKG 等功率模块封装技术的全球领导者。

JMJ is a manufacturer located in Busan that produces electrical connector material, automatic assembly equipment, and power module PKGs.

JMJ is producing the mass production of power semiconductor modules for E-mobility Applications after the completion of an additional factory in Busan in October 2022. We are on our way to becoming the global leader in power module package technology like Material, Equipment and Module PKG.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1. SFDSC (Safety Dual Side Cooling 1200V SiC MOSFET)

- 采用 3D 打印技术实现高可靠性: AQG324
- 1200V SiC MOSFET(wolfspeed)
- SFDSC-3PL 1200V / 5mΩ / 300A / with NTC
- SFDSC-4PL 1200V / 2.5mΩ / 500A / with NTC

2. SFPK (Safe Power Package)-3L and 4L, SFPK-4DL, SFPK-PlusD-4L

- 减少振铃 / 更快捷的切换
- 在所有温度范围下低导通损失 / 与门驱动器兼容
- 提高功率密度和系统效率 / 降低电容
- 更高的系统效率 / 更低的热阻 / 更低的 Q_g

3. JEQ-1921 Like EconoDual Power Module Package

- $V_{DS} = 1700V$, $I_D = 450A$, $R_{ds(on)} = 2.5m\Omega$ / $V_{DS} = 1700V$, $I_D = 300A$, $R_{ds(on)} = 5m\Omega$ / $V_{DS} = 1700V$, $I_D = 160A$, $R_{ds(on)} = 10m\Omega$
- 低涌浪, 低切换损失, 低散磁感应
- 可进行高速切换
- 减少温度依赖性
- 隔离基板 / 标准外壳 / 高功率密度



1. SFDSC (Safety Dual Side Cooling 1200V SiC MOSFET)

- Using 3D Clip Technology for high reliability : AQG324
- 1200V SiC MOSFET(wolfspeed)
- SFDSC-3PL 1200V / 5mΩ / 300A / with NTC
- SFDSC-4PL 1200V / 2.5mΩ / 500A / with NTC

2. SFPK (Safe Power Package)-3L and 4L , SFPK-4DL , SFPK-PlusD-4L.

- Reduced Ringing / Fast and More Efficient Switching
- Low Conduction Losses at all Temperature / Compatible with Gate Drivers
- Better Power Density and System Efficiency / Lower capacitance
- Higher system efficiency / Lower thermal impedance / Lower Qg

3. JEQ-1921 Like EconoDual Power Module Package

- VDS =1700V, ID =450A, Rds(on)=2.5mΩ / VDS =1700V, ID =300A, Rds(on)=5mΩ / VDS =1700V, ID =160A, Rds(on)=10mΩ
- Low surge, low switching loss, low stray Inductance
- High- speed switching possible
- Reduced temperature dependence
- Isolated base plate / Standard housing / High power density

展位号 / Booth No: E77

比利时荷语鲁汶大学电力电子研究团队

Katholieke Universiteit Leuven

KU LEUVEN

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邮箱 / E-mail: wilmar.martinez@kuleuven.be

网址 / Web: <https://www.kuleuven.be/kuleuven>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 电机工程 Electrical Engineering, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

由 Wilmar Martinez 教授领导的电力电子研究团队是比利时荷语鲁汶大学电气工程系 (KU Leuven ESAT) 的一个重要分支, 专注于电力转换器技术的进步。研究团队致力于通过使用新型半导体和磁性材料以及建模技术, 提高电力转换器在实际应用中的效率、功率密度和性能。

团队研究主要方向为

磁性元件:

- 可变压器
- 高频核心损耗测量与表征
- 带有交错 PCB 绕组的平面变压器

宽禁带半导体:

- 碳化硅 (SiC) 和氮化镓 (GaN) 转换器
- 1200V GaN HEMTs 测试和可行性研究
- 集成增强型 GaN HEMTs
- 控制、保护与可靠性

人工智能设计自动化:

- 自动数据表数据提取
- 基于人工智能的磁性核心损耗模型
- 高效率和高功率密度设计

鲁汶大学电力电子研究团队的主要研究活动集中在比利时 Genk 的 EnergyVille 研究中心。EnergyVille 致力于可持续能源领域的研究。由鲁汶大学、VITO、imec 和哈瑟尔特大学共同创立。借助与 EnergyVille 合作伙伴关系, 电力电子研究团队能够利用跨学科的专业知识和资源, 扩大研究影响力。

The Power Electronics research group from KU Leuven & EnergyVille (Belgium, Europe), led by Professor Wilmar, focuses on advancements in power converter technology. Our mission is to enhance power converters' efficiency, density, and performance for specific applications, utilizing novel semiconductors, magnetic materials, and innovative modeling techniques.

Research and Innovations: Our group's research seeks to push the boundaries of power electronics by using our expertise in:

MAGNETIC COMPONENTS

- Variable transformers
- High-frequency core loss measurement and characterization
- Planar transformers with interleaved PCB windings

WBG SEMICONDUCTORS

- SiC and GaN converters
- 1200V GaN HEMTs testing and feasibility studies
- Integrated E-mode GaN HEMTs
- Control, protection, and reliability

AI DESIGN AUTOMATION

- Automatic datasheet data extraction
- AI-based magnetic core loss models
- High efficiency and power density design

The main research activities of KU Leuven Power Electronics group are centered at EnergyVille in Genk. EnergyVille is a collaborative research center dedicated to sustainable energy, jointly founded by KU Leuven, VITO, imec, and UHasselt. This partnership enhances the group's research impact through access to interdisciplinary expertise and resources.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 散热管理 Thermal Management, 伺服技术 / 执行器 Electrical Drives, 电力供应 Power Supply, 开发软件 Development Software

产品介绍 / Products Description:

双有源全桥 (DAB) 转换器中的磁控可变压变压器, 可以通过改变高频变压器的耦合系数, 为隔离转换器的控制引入了新的自由度。通过调整变压器电压比, 无论输入和输出电压如何变化, 它始终都能保持 DAB 初级侧直流电压增益为 1。这不仅扩展了零电压开关 (ZVS) 区域, 而且在轻载条件下降低了有效电流。一个实验原型在 100V 输入电压和 1.2kW 额定功率条件下, 在轻载 (最大负载的 5%) 情况下, 最低效率达到了 90%, 输出电压变化范围为 130V 到 180V。

我们在双向 GaN 电动汽车充电器方面的工作, 专注于开发能够处理超过 800V 动力系统的充电器, 并集成了包括 GaN 和碳化硅 (SiC) 晶体管在内的先进半导体材料。我们的双向充电器不仅设计用于高效地为电动汽车电池充电, 还支持车到电网 (V2G) 应用。充电器的关键特点包括紧凑的磁元件和 300 至 800kHz 的工作频率。使用液冷系统提高热管理性能。采用 CLLC 谐振 DC/DC 转换器拓扑和图腾柱交错功率因数校正 (PFC) 方法, 以优化功率转换过程, 实现最大效率和可靠性。

我们设计的 PowerBrain, 是一款基于 AI 的电源转换器设计自动化工具, 解决了半导体组件选择和磁性组件设计优化的问题。我们的自动数据提取工具简化了从 MOSFET 数据表中提取数据的繁琐过程, 将数小时的工作缩短为几分钟。只需三步: 1. 上传数据表; 2. 选择图表; 3. 获取机器可读数据! 这有助于构建半导体数据集。

我们的磁损预测神经网络模型的训练, 是基于数千次测量的磁芯损耗数据集, 准确表征了各种材料、尺寸和形状下的磁芯损耗。因此, 我们的模型能够快速准确地估算磁芯损耗, 并在几秒钟内快速设计出最佳的磁性组件!



1. Magnetically controlled variable transformer within a DAB converter

This innovative approach introduces a new degree of freedom to the control of isolated converters through the variation of the coupling factor of the high-frequency transformer. By adjusting the transformer voltage ratio, it maintains a DAB primary-referred DC voltage gain of one, regardless of varying input and output voltages. This results in an extended Zero Voltage Switching (ZVS) region and lower effective currents at light loads.

An experimental prototype with an input voltage of 100V and a rated power of 1.2 kW demonstrates a minimum efficiency of 90% under light-load conditions (5% of the maximum load), considering output voltage variations ranging from 130V to 180V.

2. Our work on bidirectional GaN EV chargers focuses on creating chargers capable of handling over 800V powertrains and integrating advanced semiconductor materials, including GaN and Silicon Carbide (SiC) transistors. Our bidirectional chargers are designed not only to charge EV batteries efficiently but also to support vehicle-to-grid (V2G) applications. Key features of our charger include compact magnetics and operation frequencies ranging from 300 to 800 kHz. Use of liquid cooling systems enhances thermal management. A CLLC resonant DC/DC converter topology and a totem-pole interleaved power factor correction (PFC) approach are adopted to optimize the power conversion process for maximum efficiency and reliability.

3. PowerBrain is an AI-based power converter design automation tool addressing semiconductor component choice and magnetic component design optimization.

Our automatic data extraction tool streamlines the tedious data extraction from MOSFET datasheets, reducing hours of work to minutes. Just follow three steps: 1. Upload your datasheet; 2. Select the figure; 3. Get the machine-readable data! This aids in constructing semiconductor datasets.

The magnet core loss dataset, based on thousands of measurements, accurately characterizes core loss for various materials, sizes, and shapes. Thus, our neural network models provide quick and accurate core loss estimations and a rapid design of the optimal magnetic components in seconds!

展位号 / Booth No: C14

科威尔技术股份有限公司

KEWELL TECHNOLOGY CO., LTD.

Kewell

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邮箱 / E-mail: chunjuan.zhou@kewell.com.cn

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电力供应 Power Supply, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

科威尔 (股票代码: 688551) 是以测试电源为基础产品, 为多行业提供测试设备及智能制造装备的综合型服务商。

公司业务覆盖测试电源、氢能测试及智能制造装备、功率半导体测试及智能制造装备三大产业。产品主要应用在新能源发电、电动车辆、燃料电池、电解槽、功率半导体等领域等, 也适用于轨道交通、汽车电子、智能制造、机电设备、航空航天、实验室认证等众多场景。

Kewell (Stock Code: 688551) is a comprehensive service provider that provides test equipment and intelligent manufacturing equipment for multiple industries based on test power supply. The company's business covers three major industries: test power supply, hydrogen energy testing and intelligent manufacturing equipment, power semiconductor testing and intelligent manufacturing equipment. Products are mainly used in new energy power generation, electric vehicles, fuel cells, electrolytic cells, power semiconductors and other fields, but also for rail transit, automotive electronics, intelligent manufacturing, mechanical and electrical equipment, aerospace, laboratory certification and many other scenarios.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

MX700S 静态测试系统由高压供电单元、治具单元、测量单元、继电器切换单元、脉冲电流源以及配套测试仪器等组成。采用公司自主开发的系统测试软件, 为功率器件静态特性参数提供一个稳定、精准的测试平台, 适用于 IGBT、SiC、二极管等功率器件的静态测试。

MX700D SiC 动态测试系统由高精度可编程直流电源、治具单元、测量控制单元、驱动控制单元、保护单元以及配套测试仪器等组成, 采用公司自主开发的系统测试软件, 为碳化硅器件动态特性参数提供一个稳定、精准的测试平台。



MX700S 静态测试系统



MX700D SiC 动态测试系统

The MX700S static test system is composed of high voltage power supply unit, fixture unit, measuring unit, relay switching unit, pulse current source and supporting test instruments, etc. The system test software independently developed by the company provides a stable and accurate test platform for the static characteristic parameters of power devices. Suitable for static testing of IGBT, SiC, diode and other power devices.

The MX700D SiC dynamic test system is composed of high-precision programmable DC power supply, fixture unit, measurement control unit, drive control unit, protection unit and supporting test instruments, etc., using the company's self-developed system test software, to provide a stable and accurate test platform for the dynamic characteristic parameters of silicon carbide devices.

展位号 / Booth No: D70
是德科技 (中国) 有限公司
Keysight Technology Inc.



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网址 / Web: <https://www.keysight.com.cn/cn/zh/home.html>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

是德科技 (NYSE: KEYS) 启迪并赋能创新者, 助力他们将改变世界的技术带入生活。作为一家标准普尔 500 指数公司, 我们提供先进的设计、仿真和测试解决方案, 旨在帮助工程师在整个产品生命周期中更快地完成开发和部署, 同时控制好风险。我们的客户遍及全球通信、工业自动化、航空航天与国防、汽车、半导体和通用电子等市场。我们与客户携手, 加速创新, 创造一个安全互联的世界。了解更多信息, 请访问是德科技官网

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 测试和测量 Test & Measurement

产品介绍 / Products Description:

1. PD1550A, 功率半导体动态 (DPT) 测试系统

功能:

- 能够可靠、可重复地测量宽带隙 (SiC, GaN) 功率半导体的动态特征,
- 测量的特征包括开启、关闭、开关切换、反向恢复、栅极电荷以及其他许多特征。
- 同时满足被测器件和用户对测试环境的要求。
- 模块化平台可扩展、可升级, 能够对所有功率器件进行测试。



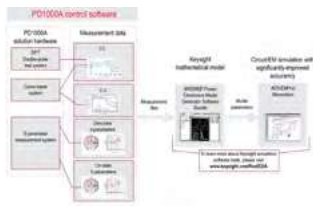
本次发布新功能:

- 支持单管, 模块及裸片测试
- DPT 支持 1500V/3KA 电流电压测试
- 脉冲隔离探头对上管 Vgs 进行测试

2. PD1000A 建模提参系统

功能:

测试套件 (其中包括曲线追踪、S 参数和双脉冲测试仪硬件) 根据真实 WBG 器件进行测量, 并使用先进的建模软件来构建是德科技独有的复杂 WBG 器件模型。随后, 是德科技先进设计系统软件可以使用这些模型仿真和分析高频分量对设计可靠性和 EMI 的影响。在进入原型设计阶段之前, 工程师就可以对设计进行修改, 避免不必要的设计过程, 从而节省时间和成本。



3. B1505A, 功率器件分析仪 / 曲线追踪仪

功能:

B1505A 功率器件分析仪 / 曲线追踪仪是用于评测 pA 以下到 10 kV/1500 A 功率器件的一体化解决方案。具有准确测量 10 μ s 脉冲和 $\mu\Omega$ 导通电阻的能力。

支持测试参数:

- 一体化解决方案可以表征高达 1500 A 和 10 kV 的功率器件
- 可在高压偏置下进行中档电流测量 (例如 1200 V 时为 500 mA)
- $\mu\Omega$ 导通电阻测量能力
- 在高压偏置下进行准确的皮安级以下电流测量



展位号 / Booth No: F28
Knowles Precision Devices



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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 航空航天 Aerospace, 电力供应 Power Supply, 医疗电子 Medical Electronics, 通信 Communications, 汽车工程 Automotive, 风能 Wind Energy

公司简介 / Company Profile:

Knowles Capacitors is a manufacturer of high quality automotive grade components. With the broadest range of AEC-Q200 approved MLC capacitors, Tandem and Open Mode MLC capacitors, X8R High temperature MLC capacitors and EMI filters up to a voltage rating of 4kV we provide for the requirements of modern automotive applications including EV and HEV systems.

Our expertise is the design and manufacture of components important to engineers in applications where function and reliability are key. The markets we serve include automotive, medical implantable and medical equipment, military, aerospace/ avionics, EMI and connector filtering, oil exploration, instrumentation, industrial electronics, optical networks, telecom and automotive.

产品范围 / Topics:

被动元件 Passive Components

产品介绍 / Products Description:

With AEC-Q200 approved ranges up to a voltage rating of 4kV Knowles Precision Devices provides for the requirements of modern automotive applications including EV and HEV.

Ranges include :

1. Standard MLCCs
2. StackiCap™ - large capacitance/small case size MLCCs
3. Open Mode and Tandem capacitors
4. 3 terminal EMI components
5. X2Y Integrated Passive Component
6. X8R high temperature MLCCs
7. Safety Certified MLCCs



All fully tested / approved and available with a range of suitable termination options, including tin/lead plating and Knowles FlexiCap™.

Enhanced Safety Certified MLCCs

Knowles Precision Devices' Enhanced Safety Certified Surface Mount MLCC product line complies with international UL and IEC/EN specifications, with certification by UL, cUL and TUV, and offers the benefits of a lower profile and less board space. They are available in case sizes 1808, 1812, 2211, 2215 and 2220, and all are available with the option of FlexiCap™ termination to reduce the risk of mechanical cracking. All parts have a CTI ≥ 600 , allowing us to offer the SYS range with an even smaller platform suitable for use in equipment within the scope of IEC 62368.

Metal Frame MLCC (AEC-Q200)

Knowles Precision Devices' leaded standoff components are high-reliability parts capable of 3,000 thermal cycles with no degradation of interconnects when mounted on an FR4 board. Compared to a surface-mounted chip, lead flexibility accommodates much more board bending and flexing before internal cracks form. Leaded standoffs are advantageous because they position ceramic elements off the board, ultimately providing more design flexibility. With high voltage ratings, standoffs can help control flashover across the component surface and are suitable for industrial and automotive markets. They offer enhanced performance under critical testing conditions such as thermal shock and mechanical vibration.

<https://www.knowlesc capacitors.com/Products/Capacitors/AEC-Q200>

展位号 / Booth No: C56

株式会社弘辉

KOKI COMPANY LIMITED

KOKI
株式会社 弘輝

地址 / Add: 〒 120-0026 東京都足立区千住旭町 32-1

32-1 Senju Asahi-cho, Adachi-ku, Tokyo 120-0026

电话 / Tel: +81 3-5244-1521

邮箱 / E-mail: daijun@ko-ki.co.jp

网址 / Web: <https://www.ko-ki.co.jp/en/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 医疗电子 Medical Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

株式会社弘辉成立于 1964 年的东京, 作为电子设备核心部件“焊料”的专业制造商, 半个多世纪以来, 我们一直致力于为全球电子行业贡献力量。凭借高品质的产品和革新技术, 我们引领着表面贴装行业的不断进步。近年来, 我们积极响应环保需求, 积极投入无铅焊料、助焊剂等下一代接合技术的研发。我们拥有丰富的产品线, 并提供完善的技术支持, 为表面贴装和功率电器行业的发展贡献力量。株式会社弘辉将继续秉持“焊料”专业精神, 不断追求信赖与革新, 致力于为全球电子行业提供卓越的产品和服务。

Established in Tokyo in 1964, KOKI Co., Ltd. is a leading manufacturer of solder, a crucial material in electronic devices. Our solutions have enabled advancements in countless electronic devices, from consumer electronics to industrial applications. For over half a century, we have dedicated ourselves to contributing to the global electronics industry. Our commitment to high-quality products and innovative technologies has propelled us to the forefront of the surface mount technology (SMT) and power device industry. We are dedicated to providing environmentally responsible solutions that meet the evolving needs of the industry. To learn more about how KOKI can support your innovation, please contact us today.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 传感器 Sensors, 伺服技术 / 执行器 Electrical Drives, 能源储存系统 Power Quality & Energy Storage

产品介绍 / Products Description:

E14 系列: KOKI E14 系列焊锡膏专为真空甲酸回流焊工艺而设计, 采用独家技术, 实现焊接后“0 助焊剂”残留, 提供更清洁、更可靠、更高效的焊接效果。其独特助焊剂配方结合还原气氛, 可实现极低气泡率, 无需后续清洗, 节省时间和资源。E14 系列焊锡膏可替代预成型焊料和松香基锡膏, 简化生产流程, 省去预成型焊料的安装和拆除步骤, 以及助焊剂残留的清洗步骤。E14 系列采用无铅和无卤配方, 支持绿色制造。选择 KOKI E14 系列, 实现高质量、高效率、环保的焊接解决方案。



E14 series: The KOKI E14 series solder paste is specifically designed for vacuum formic acid reflow soldering. It utilizes exclusive technology to achieve zero-residue flux after soldering, delivering cleaner, more reliable, and efficient soldering results. Its unique flux formula, combined with the power of a reducing atmosphere, virtually eliminates voids and eliminates the need for post-soldering cleaning, saving time and resources. The E14 series can replace preforms and rosin-based solder pastes, simplifying the production process by eliminating the need for preform attachment, removal, and flux residue cleaning steps. The E14 series features a lead-free and halogen-free formulation, supporting green manufacturing. Choose the KOKI E14 series for high-quality, high-efficiency, and environmentally responsible soldering solutions.

展位号 / Booth No: G63
Korea Instrument Co., Ltd



地址 / Add: 9-29, Dongtansandan 4gil, Hwaseong-si, Gyeonggi-do, 18487, Korea

电话 / Tel: +82-31-375-5900

邮箱 / E-mail: ki.stc@kicl.co.kr

网址 / Web: <http://www.kicl.co.kr/eng/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

Korea Instruments was founded in 1996.

Our main businesses are Probe card for semiconductor electrical die sorting and Metalized Ceramic Substrate.

In the Probe card business, we are major partner of Samsung Electronics' memory division and LSI division.

Since 2008 we've been doing Metallized Ceramic Substrate business, we've developed the world's first eco-friendly sputtering thick film process in 2008 and started the metallization ceramic substrate business in 2012 to the present.

Through the development and commercialization of Hybrid AMB boards, which are an advance in AMB technology, we are mass-producing and supplying them to German power module manufacturers.

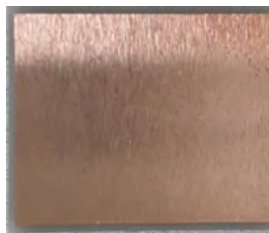
产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management

产品介绍 / Products Description:

1. AMB Substrate for Power Module for xEV, Renewable Energy, Aerospace

2. STC Substrate for Industrial Isolated Discrete SOT-227 / TO-220 / TO-247



展位号 / Booth No: F54

KOSTECSYS



地址 / Add: 261, Namdongseo-ro, Namdong-gu, Incheon, Republic of KOREA(21634)

邮箱 / E-mail: sales@kostec.net

网址 / Web: <https://www.kostec.net/en/index.php>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply, 通信 Communications, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

KOSTECSYS, Since 1997

The Global Leading Company of

Low Thermal Expansion and High Thermal Conductivity Materials

for SiC and GaN Next-Generation Power Semiconductors

In Electric Vehicles, 5G Communication, Radar,

Robots, Aerospace, and Military,

KOSTECSYS is Growing as a Core Material Company

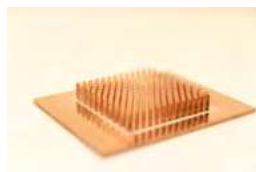
Thank you!

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, Thermal Management, 伺服技术 / 执行器 Electrical Drives, 电力供应 Power Supply, 能源管理系统 Energy Management System

产品介绍 / Products Description:

Advanced Thermal Matching Packages for Power Semiconductors



展位号 / Booth No: C16

莱姆电子 (中国) 有限公司

LEM Electronics (China) Co., Ltd.



地址 / Add: 北京市顺义区林河工业区林河大街 28 号院

Yard 28, Linhe Street, Linhe Industrial Zone, Shunyi District, Beijing

邮箱 / E-mail: lha@lem.com

网址 / Web: <https://www.lem.com/cn>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

莱姆电子 (中国) 有限公司是瑞士 LEM 集团在中国的独资公司, 是全球电量传感器先导者和 52 年电量测量解决方案专家, 为客户提供创新技术和高质量电量测量解决方案。

在光伏、储能领域, 莱姆电子推出了 HMSR 系列、LZSR 系列、LWSR 系列等多款智慧传感器和领先的技术解决方案, 能够帮助光伏设备商不断提升设备效率, 有效节约成本; 在充电领域, 莱姆电子推出了 DCBM 系列直流电能表和直流计量解决方案, 以创新的技术和优质的产品满足客户的多元化需求, 助力充电桩市场往清洁绿色和智能高效的方向大力发展。

LEM Electronics (China) Co., LTD., a wholly owned company of LEM Group in China, is a global leader in power sensors and an expert in power measurement solutions for 52 years, providing customers with innovative technology and high-quality power measurement solutions.

In the field of solar and energy storage, LEM Electronics has launched a number of smart sensors and leading technical solutions such as HMSR series, LZSR series and LWSR series, which can help solar equipment manufacturers to continuously improve equipment efficiency and effectively save costs. In the field of charging, LEM Electronics has launched DCBM series DC energy meters and DC metering solutions to meet the diversified needs of customers with innovative technology and high-quality products, and help the charging pile market to develop in the direction of clean, green, intelligent and efficient.

产品范围 / Topics:

传感器 Sensors

产品介绍 / Products Description:

(1) DCBM100 直流计电表

DCBM100 是 30 千瓦以下直流慢充的卓越解决方案, 使用行业标准数据协议, 提供功率损失补偿方案, 采用单体式设计, 特别适用于壁挂式直流充电桩, 提供安全通信、可靠计费、与云服务轻松连接以及符合计量法规的更快认证过程。

(2) 新型 HMSR DA

莱姆电子推出的新型 HMSR DA 是市场上第一款 Sigma-Delta 比特流输出集成式电流传感器。在应用于噪声、失真及干扰影响的环境中时, HMSR DA 具有显著的优势。

(3) CAB-SF 系列磁通门电流传感器

莱姆 CAB-SF 系列磁通门电流传感器拥有业界领先的精度, 同时具备超低零漂、高速 CAN 输出, 以及符合 ISO 26262 的功能安全设计。标称电流为 500A 至 1500A。



(1) DCBM100 DC charging meter

The DCBM100 is the superior solution for DC slow charging up to 30 kW. It uses industry standard data protocols, provides power loss compensation, and is designed as a single unit, especially for wall-mounted DC charging stations, providing secure communication, reliable billing, easy connection to cloud services, and a faster certification process for compliance with metering regulations.

(2) The new HMSR DA

The new HMSR DA from LEM Electronics is the first Sigma-Delta bitstream output integrated current sensor on the market. HMSR DA has significant advantages when used in environments affected by noise, distortion and interference.

(3) CAB-SF series fluxgate current sensor

CAB-SF series fluxgate current sensor of LEM offer industry-leading accuracy with ultra-low zero drift, high-speed CAN output, and a functional safety design compliant with ISO 26262. Nominal current is 500A to 1500A.

展位号 / Booth No: C62

龙腾半导体股份有限公司

Lonten Semiconductor Co., Ltd.

龙腾半导体股份有限公司
Lonten Semiconductor Co., Ltd.地址 / Add: 陕西省西安市经济技术开发区凤城十二路1号西安关中兴综合保税区A区
Comprehensive Bonded Zone, No.1 Fengcheng 12th Road, Xi'an, Shaanxi

电话 / Tel: +86-029-8665 8666

邮箱 / E-mail: sales@lonten.cc

网址 / Web: https://www.lonten.cc/

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 照明 Lighting, 通信 Communications

公司简介 / Company Profile:

龙腾半导体股份有限公司 2009 年成立于西安, 是一家致力于新型功率半导体器件研发、生产、销售、服务的国家高新技术企业。

公司成立以来, 便以推动高端功率器件国产化进程为己任, 将技术创新视为企业发展第一动力, 累计获得自主知识产权 200 余项; 制定超结 MOSFET 国家行业标准 (标准号: SJ/T 9014.8.2-2018); 运营联合新型研发平台 (交大-龙腾新型功率半导体研究院); 建有先进的功率器件测试应用中心, 专注提供高效、可靠、高性价比的功率器件及系统解决方案。

公司在以超结 MOSFET 为代表的高端功率半导体器件领域走出一条自主创新之路, 形成了高压超结 MOSFET、绝缘栅双极型晶体管 (IGBT)、屏蔽栅沟槽 (SGT) MOSFET、低压沟槽 (Trench) MOSFET、高压平面 MOSFET、SiC JBS&MOSFET 等 6 大产品系列, 广泛应用于汽车电子、工业电子及消费电子等领域。

公司愿景: 领先的功率半导体器件及系统解决方案提供商

Lonten Semiconductor Co., Ltd. founded in Xi'an in 2009, it's a national high-tech enterprise dedicated to the R&D, manufacturing, sales and service of new type power semiconductor devices.

The company regards technology innovation as the first driving force for enterprise development, and has more than 200 core technology patents. Lonten drafted national standards for Super-Junction power MOSFET (NO: SJ/T 9014.8.2-2018), and operates school-enterprise joint new research and development platform (Xi'an JiaoTong University-Lonten Advanced Power Semiconductor Technology Research Institute). The company has a first-class device evaluation laboratory and reliability center, and is dedicated to provide high-efficient and high-reliable power devices and cost-effective system solutions.

The company has developed a path of independent innovation in the field of high-end power semiconductor devices represented by Super-Junction MOSFET, formed a complete series of power device products, such as Super-Junction MOSFET, IGBT, SGT MOSFET, Trench MOSFET, Planar MOSFET and SiC JBS&MOSFET with the 6 kinds of product series. Products have been widely used in Consumer, Industrial, Automotive and other electronic fields.

Company Vision: Leading provider of power semiconductor devices and system solutions

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1、龙腾超结 MOSFET 功率器件



龙腾超结 MOSFET, 在传统 VDMOS 的基础上, 通过交替排布的 P 型柱, 引入一个横向电场, 使超结 MOSFET 垂直方向上的电场分布近似于矩形, 在相同外延电阻的条件下, 明显提高了产品的耐压, 其采用深沟槽技术

与多次外延技术制造，具有极低的导通电阻和栅极电荷，明显降低导通和开关损耗，特别适合应用于高功率密度和高效率电力电子变换系统。

Based on the traditional VDMOS, the Super Junction MOSFET introduces a transverse electric field through alternately arranged p-pillar, making the electric field distribution in the vertical direction of the MOSFET nearly rectangular. Under the condition of the same epitaxial resistance, the withstanding voltage of the product is obviously improved.

LonFET™ is a series of products of Lonten Super Junction MOSFET. Manufactured with advanced super junction technology, it has extremely low RDS(ON) and Qg, significantly reducing conducting and switching losses, and is especially suitable for high power density and high efficiency power electronic conversion systems.

2、龙腾 IGBT



龙腾 IGBT 系列产品采用领先的场截止（Field-Stop）技术及沟槽栅结构，可以实现通态压降、开关损耗和器件鲁棒性的良好平衡。并采用特殊的 IEGT 结构，使发射极一侧的载流子浓度明显增强，电导调制的效应进一步增强，从而使 IGBT 的饱和电压降低，器件性能得到进一步优化。

LonOPT™ 参数一致性较好，出厂经过严格筛选测试，可靠度高。经过在工业类电源客户端应用，如太阳能逆变器，电焊机，整流器等，都有出色表现，可以 Pin To Pin 替代国外同规格产品。

LonOPT™ IGBT is the IGBT family of Lonten, which uses the leading Field-Stop technology and the trench gate structure to achieve a good compromise of on-state voltage drop, switching loss and device robustness. The special IEGT structure is used to enhance the carrier concentration on the emitter side and the effect of conductance modulation is further enhanced, so that the saturation voltage of IGBT is reduced and the device performance is further optimized.

LonOPT™ parameter consistency is good, factory through strict screening test, high reliability. After application in industrial power client, such as solar inverter, welding machine, rectifier, etc., have excellent performance, can replace foreign products with Pin to Pin.

3、龙腾 SiC MOSFET



龙腾开发的平面栅碳化硅金属氧化物场效应晶体管（SiC MOSFET）产品，采用小元胞设计、JFET 注入设计、领先的衬底减薄技术及优异的终端场限环结构，使得导通电阻、泄漏电流和击穿电压等性能良好折衷，并且展现出较快的开关速度和良好的抗雪崩能力。

Planar gate metal oxide field effect transistor (MOSFET) based on silicon carbide (SiC) is developed by Lonten. Lonten SiC MOSFET features small cell pitch, JFET implantation design, advanced thinning technology and field limiting ring termination structure, leading to a good compromise among on-state resistance, leakage current and breakdown voltage. Meanwhile, SiC MOSFET exhibits fast switching and good anti-avalanche ability.

展位号 / Booth No: G64

鲁欧智造 (山东) 数字科技有限公司

LUOLOGY (Shandong) Digital Technology Co., Ltd.



地址 / Add: 山东省潍坊市潍城区殷大路与北宫街西北角产业园五号楼

Building 5, Industrial Park, Northwest Corner of Yinda Road and Beigong Street, Weicheng District, Weifang City, Shandong, China.

邮箱 / E-mail: yeyun_fan@luology.com

网址 / Web: http://www.luology.com

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

鲁欧智造成立于 2020 年 8 月, 总部位于山东省潍坊市, 是一家专注于电子散热行业热测试 / 热分析以及热数字孪生的基础技术研究和产品研发的高科技企业。

公司具有成熟的技术团队, 在机械设计、电路设计、嵌入式控制、系统软件设计、数据处理算法等方面均具备独立自主的研发能力。目前已经研发完成赤霄系列第三代瞬态热阻测试仪以及功率循环老化设备, 对标并超越国际知名品牌, 打破了国外技术垄断。

Founded in August 2020 and headquartered in Weifang City, Shandong Province, LUOLOGY is a high-tech enterprise focusing on basic technology research and product development of thermal testing, thermal analysis and thermal digital twin in the electronic cooling industry.

The company has a mature technical team and has independent R&D capabilities in mechanical design, circuit design, embedded control, system software design, data processing algorithms, etc. At present, the third-generation thermal transient tester and power cycle equipment of the CHIXIAO series have been developed, which are comparable to and surpass internationally renowned brands, breaking the foreign technology monopoly.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 散热管理 Thermal Management, 传感器 Sensors, 配置和子系统 Assemblies and Subsystems, 伺服技术 / 执行器 Electrical Drives, 智能运动 Intelligent Motion, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 测试和测量 Test & Measurement, 开发软件 Development Software, 信息与服务 Information & Services

产品介绍 / Products Description:

瞬态热阻测试仪 & 功率循环老化设备

符合 JESD 51-1, JESD 51-14 标准, 可输出结构函数, 用于 DIODE、IGBT、MOSFET、HEMT、GTO、功率 IC 等多种类型功率器件及其模块的瞬态热测试、热结构分析。



Transient Thermal Tester & Power Cycle Tester

Complies with JESD 51-1 and JESD 51-14 standards and can output structure functions for thermal transient testing and thermal structure analysis of various types of power devices and their modules, such as Diode, IGBT, MOSFET, HEMT, GTO, Power IC, etc.

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展位号 / Booth No: F14**麦德美爱法****MacDermid Alpha**

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电话 / Tel: 21 6390 0600

邮箱 / E-mail: Assembly@macdermidalpha.com

网址 / Web: <https://www.macdermidalpha.com/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

麦德美爱法是 Element Solutions Inc 的电子业务事业部, 是全球领先的全集成材料供应商, 致力于提升制造商产品的性能、可靠性和可持续性。

电子线路、半导体与组装、薄膜和智能表面等部门为全球电子行业提供先进的专用化学品和材料技术。一个世纪以来, 麦德美爱法始终坚持创新, 赢得信赖, 制造商合作伙伴遍布全球 50 多个国家。

麦德美爱法能够快速提供高质量的解决方案和技术服务, 覆盖整个电子供应链, 促进和推动汽车、消费电子、移动设备、电信通讯、数据存储和基础设施等行业的发展。

选择麦德美爱法, 为您的成功之路注入动力

MacDermid Alpha Electronics Solutions, the electronics business segment of Element Solutions Inc, is a global leader in fully integrated materials that empower manufacturers to enhance their performance, reliability, and sustainability.

The circuitry, semiconductor and assembly, and film and smart surface divisions offer advanced specialty chemical and material technologies for the electronics industry worldwide. Renowned for over a century of innovation, MacDermid Alpha is a trusted partner for manufacturers in over 50 countries.

Uniquely positioned to promptly deliver high-quality solutions and technical service across the entire electronics supply chain, MacDermid Alpha is shaping the automotive, consumer electronics, mobile devices, telecom, data storage, and infrastructure industries.

Power your path to success with MacDermid Alpha Electronics Solutions.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1. Argomax 功率电子产品

Argomax 功率电子产品系列采用了专有的纳米粒子技术, 能够实现低压烧结, 同时利用平面涂布实现封装体粘接烧结。此外, 这个产品系列还采用了独特的薄膜形式, 适用于芯片、夹片和箔片粘接, 晶圆级烧结芯片粘接薄膜, 以及定制粘接层厚度的烧结预成型片等材料和工艺, 为功率电子实践设计提供了许多可能性。通过工程化精心设计的烧结材料和独特的工艺, Argomax 功率电子产品系列能够满足功率电子领域的各种设计需求。

2. ATROX 无压混合烧结银芯片粘接产品

Atrox 是一系列高可靠性烧结芯片粘接产品, 能够满足最严格的电源和连接要求。其中包括无压混合烧结银芯片粘接产品和高导热芯片粘接膏和膜, 同时提供标准芯片粘接设备及工艺, 具有高良率、高产量和高可靠性铜夹片粘接等特点。Atrox 产品系列的烧结芯片粘接方案设计精良, 能够满足功率半导体元件的各种设计需求。



展位号 / Booth No: E32

江苏宏微科技股份有限公司

MACMIVC SCIENCE & TECHNOLOGY CO., LTD.



地址 / Add: 江苏省常州市新北区新竹路 5 号

NO.5, XinZu Road, Xinbei District, Changzhou City, Jiangsu Province, China

电话 / Tel: +86-519-85166088

邮箱 / E-mail: sales@macmicst.com

网址 / Web: https://www.macmicst.com

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 电力供应 Power Supply, 医疗电子 Medical Electronics, 风能 Wind Energy

公司简介 / Company Profile:

江苏宏微科技股份有限公司 (英文名 MACMIC) 成立于 2006 年, 主营业务为电力半导体器件的设计、研发、制造及销售, 主要产品: IGBT、VDMOS、FRD 等芯片、分立器件、模块等功率半导体器件产品。公司自产 IGBT、FRD 芯片技术已达国际先进、国内领先水平, 打破国外垄断, 填补了多项国内的空白。宏微科技是国内功率半导体器件行业领军企业之一。2021 年, 宏微科技成功上市科创板, 股票代码 688711。

MACMIC was founded in 2006. Its main business is the R&D, manufacturing and sales of power semiconductor devices. The main products of MACMIC are IGBT, VDMOS, FRD, SiC chips, discrete devices and modules. MACMIC has advanced IGBT and FRD technologies. MACMIC focuses on becoming an expert in providing power semiconductor device solutions. It is one of the leading companies in the power semiconductor industry in China. In 2021, MACMIC was successfully listed on the Shanghai Science and Technology Innovation Board with stock ticker 688711.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

IGBT 模块

产品范围: 600-1700V/10-950A

特性: 开关速度快, 导通损耗低, 软关断特性, 短路承受能力强

FRED 模块

产品范围: 100-1700V/60-600A

特性: 恢复时间快, 软恢复特性, 反向恢复电荷低, 正向压降低, 雪崩能量高, 无机械应力封装



IGBT MODULES

Ranges: 600-1700V/10-950A

Features: Fast Switching Speed, Low Conduction Loss, Soft Turn-Off Characteristic, High short Circuit Capability

FRED MODULES

Ranges: 100-1700V/60-600A

Features: Short Recovery Time, Soft-Recovery Characteristics, Low Reverse Recovery Charge, Low Forward Voltage, High Avalanche Energy, Stressless Package

展位号 / Booth No: F30
中瑞宏芯半导体有限公司
Macrocore Semiconductor Ltd.



地址 / Add: 江苏省苏州工业园区东长路 88 号 2.5 产业园 N3 幢
Building N3, 2.5 Industrial Park, No. 88 Dongchang Road, Suzhou Industrial Park, Jiangsu Province
电话 / Tel: +86-512-83876629
邮箱 / E-mail: contact@macrocoresemi.com
网址 / Web: https://www.macrocoresemi.com/

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics

公司简介 / Company Profile:

中瑞宏芯半导体有限公司由海外归国技术专家和国内功率半导体行业顶尖产品开发团队创办，是一家专注于第三代半导体碳化硅功率芯片开发和应用的国家级高新技术企业。总部位于中国新加坡苏州工业园区，在杭州和深圳分设华东、华南销售中心，在瑞典设有海外销售和研发中心。

技术团队和运营团队深耕半导体行业多年，秉持以用户为导向的开发理念，持续提升企业创新力和核心竞争力，具备自主研发量产碳化硅材料、器件及模块能力，与江苏省第三代半导体研究院联合共建碳化硅车用大功率 MOSFET 芯片技术联合研发中心。

Founded by top R&D experts and experienced engineering teams in power semiconductor industry, with more than decade years of technology accumulation, MCS are committed to develop the new generation of energy-saving and high-efficiency silicon carbide power chips and modules.

The company's headquarter is located in Suzhou Industrial Park, with an area over 5,800 square meters, including two clean rooms and several independent laboratories for IV testing/Dynamic testing/application testing and all kinds of reliability testing.

There are R&D and sales office in Hangzhou&Shenzhen as well, and in Sweden there is MCS overseas sales and R&D center.

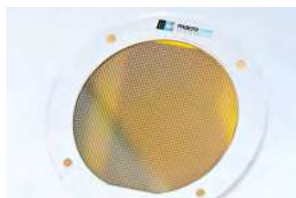
MCS has rich experience in SiC industry from material epitaxy, to chip design and simulation, to device manufacturing and testing, to customer applications. The performance of SiC Schottky diodes and SiC MOSFET products all have reached the top level in the worldwide. MCS will continually make efforts in product upgrading and innovation, drive the company with more creativity and vitality.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1. SiC JBS: 电压 650V/1200V, 电流覆盖 1A-100A, 具有行业领先的抗击浪涌电流能力, 高温下反向漏电流低, 产品可靠性高。在光伏逆变器、充电桩、PC 电源得到广泛应用。
2. SiC MOSFET: 电压覆盖 650V, 1200V, 1700V, 拥有较低的导通电阻和开关损耗, 适合高频、高效、高温应用。其中 1200V 22mΩ、40mΩ、80mΩ 通过车规 AEC-Q101 认证。
3. HSOP SiC 塑封半桥模块: 采用贴片式顶部散热封装, 体积小、重量轻, 抗震性能强, 可靠性高, 拥有极低的导通损耗和开关损耗, 适合紧凑、轻便、高效率的应用。



1. SiC JBS: Voltage ranging from 650V to 1200V, current coverage spanning 1A to 100A. It features industry-leading surge current withstand capacity, low reverse leakage at high temperatures, and high product reliability. Widely applied in photovoltaic inverters, charging piles, and PC power supplies.
2. SiC MOSFET: Voltage coverage encompasses 650V, 1200V, and 1700V, featuring low on-resistance and switching losses, and is suitable for high-frequency, high-efficiency, and high-temperature applications. Among them, 1200V 22m Ω , 40m Ω , and 80m Ω have obtained the automotive grade AEC-Q101 certification.
3. HSOP SiC plastic encapsulated half-bridge module: Adopts surface mount top heat dissipation packaging, presenting a small size, light weight, strong seismic performance, high reliability, and extremely low conduction loss and switching loss, and is suitable for compact, lightweight, and high-efficiency applications.

展位号 / Booth No: E56-A

曼特 (广州) 磁性器件有限公司

Magnetec (Guangzhou) Magnetic Device Co., Ltd



地址 / Add: 广东省广州市天河五天街瑞华路1号2栋301室, 601室

601, Building 2, No. 1, Ruihua Road, Tianyuan Sub-district, Tianhe District, Guangzhou, China

电话 / Tel: 020-38602729

邮箱 / E-mail: man.zhou@magnetec.de

网址 / Web: <https://www.magnetec.de/en/privacypolicy>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

曼特集团是一家拥有超过35年开发和生产经验的集团公司, 在纳米晶磁环和元件的领域中有超过25年的经验。我们生产基于各种不同纳米晶材料的产品(芯和组件), 加工成不同的 NANOPERM® 规格。

集团总部位于德国, 另外有四个生产基地, 位于匈牙利 Gyöngyös 与中国广州, 摩尔多瓦和越南。集团销售中心位于德国和中国, 另外在许多国家也有我们的销售伙伴。

Magnetec is a group with over 35 years of development and production experience in the field of nanocrystalline magnetic core and components. We produce cores and components based on various types of nanocrystalline materials, processed into different NANOPERMs® Specifications.

The headquarters of Magnetec group is located in Germany, with four production bases located in Gyöngyös, Hungary, Guangzhou, Moldova, and Vietnam.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 传感器 Sensors, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System

产品介绍 / Products Description:

1) CoolBlue CoolBlue 环形磁芯由 MAGNETEC 的纳米晶材料 Nanoperm 制成。用于减少具有高功率和/或高开关频率的高功率和/或大电流驱动系统中有害的电机轴承电流。不需要的轴承电流会导致电机轴承出现凹槽和点蚀, 导致轴承润滑故障, 并最终导致整个电机出现故障。CoolBlue 磁芯仅针对高频电流增加系统阻抗, 而不影响设备的运行, 从而减少高频干扰。这些磁芯不仅可以吸收电机端子处的大量电流尖峰, 还可以抑制电机和电机电缆的寄生电流产生的不对称 EMI 电流。2) EMC Chokes 由纳米晶材料 Nanoperm 制成的环形磁芯用于我们的单相或多相电流补偿 EMC 扼流圈。它们具有最高的插入损耗, 同时尺寸最小。与具有相同标称数据的常用铁氧体磁芯扼流圈相比, 体积减小了 60%。扼流圈设计符合 DIN EN 60938-1: 2008-02 标准, 标称电压为 230V、400V 或 500V/600V。标称电感的标准容差为 +50%/-30%。3) MB-67x and SafeBlue MAGNETEC 提供用于充电电缆(模式 2)、交流壁箱(模式 3) MB-67x and SafeBlue MAGNETEC 提供用于充电电缆(模式 2)、交流壁箱(模式 3)、直流充电站(模式 4)的交流/直流敏感差动电流互感器, 并可选用于车载充电器应用。MB-67x 系列具有高磁导率 Nanoperm 磁芯, 可以检测非常低(6mA)的直流电流。SafeBlue 通过包括一个集成的评估单元来推进 MB-67x 传感器技术。传感器和评估系统完美对齐。这简化了应用程序中的集成, 从而确保了故障电流的可靠检测



CoolBLUE® 安装框图



M | **Magnetics Division**
C | **Chemical Division**



1. CoolBlue toroidal cores are made of the nanocrystalline material Nanoperm by MAGNETEC and are used to reduce harmful motor bearing currents in high-power and/ or high-current drive systems with high power and/ or high switching frequencies. Unwanted bearing currents can cause fluting and pitting of motor bearings, a breakdown in bearing lubrication, and eventually the failure of the entire motor. CoolBlue cores reduces high-frequency interference by increasing the system impedance only for high-frequency currents, with no effect on the equipment's operation. These cores not only absorb significant amounts of current spikes at the motor terminals, but they also suppress the asymmetric EMI currents generated by the parasitic currents of the motor and the motor cable. 2. Toroidal tapewound cores made of the nanocrystalline material Nanoperm are used in our single-phase to multiphase current-compensated EMC chokes. They have the highest insertion loss while being the smallest in size. There is a volume reduction of up to 60% when compared to commonly used ferrite-core chokes with the same nominal data. The choke designs comply with DIN EN 60938-1:2008-02 for nominal voltages of 230V, 400V, or 500V/600V. The nominal inductance has a standard tolerance

展位号 / Booth No: B01

江苏芯长征微电子集团有限公司

Marching-Power Technology Group Co., Ltd



地址 / Add: 江苏省南京市江宁区九龙湖国际企业总部园 A2 座 10 楼

10th Floor, Building A2, Jiulonghu International Enterprise Headquarters Park, Jiangning District,
Nanjing City, Jiangsu Province

邮箱 / E-mail: majinjun@mp-tech.cn

网址 / Web: <https://www.marching-power.com/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

芯长征集团是国内领先的先进功率芯片产业生态公司, 创始团队由中科院、国内外行业资深专家及高级管理人员共同组成, 在功率器件领域深耕 20 年以上。经过多年高速发展, 已经形成芯片设计、模组封装、检测设备自主可控的 Virtual-IDM 企业, 主要面向 新能源 (汽车、光伏、储能)、工控类、消费类三大领域。

Jiangsu Marching Power Micro-Electronics Group Co., Ltd. (MP in short) was established in 2017 and specialized in the development of semiconductor. As a high-tech design company, MP's core business includes design and manufacturing of IGBT discrete, IGBT Module, MOS, SiC series products. Our products have been applied in the field of automotive, renewable energy, industrial and home appliance etc.

Our development team is composed of technical experts from Chinese Academy of Sciences and other excellent technical experts from home and abroad, and the core team members possess more than 10 years of experience in product design and packaging. We also has professional marketing and operation team to support quick development of the business.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 配置和子系统 Assemblies and Subsystems, 伺服技术 / 执行器 Electrical Drives, 电力供应 Power Supply

产品介绍 / Products Description:

1、产品型号: MPFS820R08PBF; 产品指标: 750V 820A HPD;

产品应用: 新能源汽车主驱;

主要性能比较: ①出流 510A 与国际竞品相同;

②动态、静态参数与国际主流产品基本相当;

③具备 10us 以上的短路能力;



2、产品型号: MPFF800R17MNF; 产品指标: 1700V 800A ED3;

产品应用: SVG 和风电变流器;

主要性能比较: ①比竞品出流能力高出 40A;

②动态、静态参数优于国际主流产品;

③具备 16us 的短路能力。



1. Product model: MPFS820R08PBF; Performance: 750V 820A HPD;

Product application: main inverter of EV/HEV;

Main performance comparison:

(1) The outflow 510A is the same as that of competing products;

(2) The dynamic and static parameters are basically the same as those of international mainstream products;

(3) It has the short-circuit capability of more than 10us;

2. Product Model: MPFF800R17MNF; Performance: 1700V 800A ED3;

Product application: SVG and wind transformer;

Main performance comparison:

(1) 40A higher than competing products;

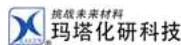
(2) The dynamic and static parameters are better than those of international mainstream products;

(3) It has the short-circuit capability of 16us.

展位号 / Booth No: G62

玛塔化研科技 (苏州) 有限公司

Mata&Kaken Tech(Suzhou)Co.,Ltd.



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No.9 Wangwan North Road, Changshu Economic Development Zone, Suzhou, Jiangsu Province, China

电话 / Tel: +86-0512-88800680

邮箱 / E-mail: info@mata-kaken.com

网址 / Web: <https://www.mata-kaken.com/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

化研科技株式会社成立于 1966 年, 在日本助焊剂清洗行业市场占有率第一, 在 SMT 及半导体行业的助焊剂清洗有 35 年的经验。化研独特的 MC 及 MCECO 系统在保证高品质清洗的同时, 又能做到循环再生, 环保无废水排放。

玛塔化研科技 (苏州) 有限公司, 是化研与玛塔共同出资建设的合资企业, 立足华东, 100% 实现国产化并扩大国产化产能, 缩短交期, 为环保及中国芯片国产化添砖加瓦。

Founded in 1966, KAKEN TECH CO., LTD. has the No. 1 market share in the flux cleaning industry in Japan and has 35 years of experience in flux cleaning for the SMT and semiconductor industries. KAKEN's unique MC and MCECO systems ensure high quality cleaning while recycling and environmental protection with no wastewater discharge.

Mata&Kaken Tech(Suzhou)Co.,Ltd. is a joint venture between Kaken Tech and Suzhou MATA based in East China, to achieve 100% localization and expand the production capacity, shorten the delivery time, and to contribute to the environmental protection and the localization of China's chips.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

零废水超微净清洗系统: 全自动清洗、漂洗、烘干一体助焊剂清洗设备, 配合 MC 系列清洗剂及漂洗剂使用, 漂洗剂常压蒸馏循环再生, 可实现零废水排放清洗功能。用于半导体 SMT 等行业各类产品 (植球后芯片、高精 PCB、IGBT、SiP 等) 助焊剂清洗。



Zero-waste water ultra-micro-purification cleaning system: fully automatic cleaning, rinsing, drying flux cleaning equipment, with the MC series of cleaning agents and rinsing agent, rinsing agent atmospheric distillation cycle regeneration, can achieve zero-waste water discharge cleaning function. Used in semiconductor SMT and other industries for all kinds of products (after planting the ball chip, high-precision PCB, IGBT, SiP, etc.) flux cleaning.

展位号 / Booth No: F06

美蓓亚功率半导体株式会社

Minebea Power Semiconductor Device Inc.

MinebeaMitsumi
Passion to Create Value through Difference

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网址 / Web: <https://www.minebea-psd.com/en/index.html>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 医疗电子 Medical Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

We have made a new beginning as MinebeaMitsumi group through the 100% share transfer from Hitachi, Ltd.

We have more than 10 years of business partnership with MinebeaMitsumi and further synergy is expected in the area of production expansion & optimization as well as in the wide range business field (Machined Components Segment, Electronic Devices and Components Segment and Automotive/Industrial Machinery/Home Related Products) with our core product lineup, IGBT · SiC, High Voltage ICs and Diodes.

We will also create new synergy in the close product/technology category with MinebeaMitsumi such as Semiconductor, Sensor, Motor control and Power Supply devices and we are committed to contributing to the society through the products of power semiconductor devices with low loss technology in order to support people's happiness in environment-friendly Green Energy & Mobility.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

Minebea Power Semiconductor Device has been providing high value-added products utilizing high-voltage and low-loss technologies in the field of power semiconductors, which are key devices in the electrification and motorization of industry and social infrastructure, with "IGBT/SiC", "High Voltage IC" and "Diodes" as its three main product categories. Minebea Power Semiconductor Device is focusing on IGBT/SiC products in the market areas where high growth is expected toward the realization of a decarbonized society, such as electric vehicles and inverters for wind power generators, in addition to railroad applications, utilizing the strength of the high durability and reliability cultivated in railroad applications. Many customers in Japan and overseas have adopted IGBT/SiC made by Minebea Power Semiconductor Device. In the area of high-voltage ICs for industrial and home appliance applications, Minebea Power Semiconductor Device is contributing to efficiency improvement and noise reduction in customers' systems through motor control technology and software based on the knowledge it has gained from providing products for a wide range of fields. Furthermore, Minebea Power Semiconductor Device provides diodes for automotive applications, which require high reliability, for a long period of time.



展位号 / Booth No: E01

三菱电机机电 (上海) 有限公司

Mitsubishi Electric & Electronics(SHANGHAI) CO., LTD.



地址 / Add: 上海市长宁区兴义路 8 号上海万都中心 29 楼

29/F, Shanghai Maxdo Centre No.8 Xing Yi Road, Chang Ning, Shanghai, China

电话 / Tel: +86-21-52082030

邮箱 / E-mail: info@mesh.china.meap.com

网址 / Web: https://www.mitsubishielectric-mesh.com/

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 电机工程 Electrical Engineering, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

三菱电机创立于 1921 年, 是全球知名的综合性企业。作为一家技术主导型企业, 三菱电机拥有多项专利技术, 并凭借强大的技术实力和良好的企业信誉在全球的电力、通信、工业自动化、家电、半导体等市场占据重要地位。

三菱电机从事开发和生产半导体已有 68 年, 其产品在变频家电、电动汽车、工业 & 新能源、轨道牵引、电力传输以及通讯、红外传感等领域得到了广泛的应用。

Mitsubishi Electric is the world's famous integrated enterprise group, which was set up in 1921. As a technology driven enterprise, Mitsubishi Electric owns a number of leading technology. Also, with its strong technical strength and good reputation, it occupies important position in global markets of power, communication, industrial automation, home appliance and semiconductor.

Mitsubishi Electric has been engaged in the development and production of semiconductor for 68 years, and its semiconductor products have been widely used in inverter home appliance, electric vehicle, industry & renewable, rail traction, power transmission, communication, infrared sensing and other fields.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

J3 系列 SiC EV T-PM

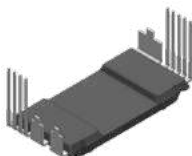
三菱电机全新开发了车载压注模封装的 T-PM 半桥模块, 同一封装兼容 RC-IGBT (750V/400A) 和 SiC (1300V/350A), 全面适配中高端车型。封装迷你, 设计灵活, 适合紧凑型逆变器设计; 容易并联, 产品阵容丰富, 匹配客户的平台化扩展; 铜端子直接绑定, 可靠性高, 功率循环寿命远大于壳式封装的模块; 生产效率高, 成本优势强, 为客户的电驱产品增加竞争力。

新型 3.3kV Unifull 系列 SiC-MOSFET 模块

继 3.3kV/185A、3.3kV/375A 和 3.3kV/750A 全碳化硅模块之后, 三菱电机新开发了 Unifull 系列 SBD 嵌入式 SiC MOSFET 模块, 规格为 3.3kV/200A、3.3kV/400A 和 3.3kV/800A。新型模块采用 SiC MOSFET&SBD 一体化芯片和 LV100 封装, 将有助于提高铁路牵引系统、电力系统及大型工业交流系统的功率密度、效率和可靠性。

工业用 NX 封装全 SiC-MOSFET 模块

三菱电机开发了工业设备用 NX 封装全 SiC 功率半导体模块, 额定电压为 1200V 和 1700V, 额定电流为 600A。该模块采用了 JFET 掺杂技术的第二代 SiC 芯片, 具有低损耗特性。与现有 Si IGBT 模块相比, 功率损耗降低约 72%。新模块采用了优化的叠层结构, 实现了 9nH 的内部杂散电感, 与现有的 Si IGBT 模块相比, 内部杂散电感减少约 47%。



J3-Series SiC EV T-PM

Mitsubishi Electric has developed a new automotive transfer half-bridge module, named T-PM, which is compatible with RC-IGBT (750V/400A) and SiC (1300V/350A) in the same package, and is fully suitable for mid-to-high-end vehicle. Compact package, flexible design and high power density; Easy to parallel, rich product lineup and high scalability; Direct lead bonding (DLB) technology with high reliability and better power cycle lifetime; High production efficiency, low cost and strong competitiveness.

New 3.3kV HV SiC-MOSFET Module

Following the 3.3kV/185A, 3.3kV/375A and 3.3kV/750A SiC MOSFET modules, Mitsubishi Electric newly developed a new series of high voltage SiC MOSFET modules: 3.3kV/200A, 3.3kV/400A and 3.3kV/800A. The new modules adopt SBD-embedded SiC MOSFET inside and LV100 package, which will help to improve the power density, efficiency and reliability of railway traction systems, power systems and large industrial equipment.

Industry use Full SiC-MOSFET with NX package

Mitsubishi Electric has developed full SiC power module with NX package for industrial equipment, with 1.2/1.7kV rated voltages and 600A rated current. This module adopts the second-generation SiC chip with JFET doping technology, which has low loss characteristics. Compared with existing Si IGBT modules, the power loss is reduced by about 72%. The new module adopts an optimized stacked structure, achieving an internal stray inductance of 9nH. Compared with existing Si IGBT modules, the internal stray inductance is reduced by about 47%.

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展位号 / Booth No: H16**三井金属矿业株式会社****Mitsui Mining & Smelting Co., Ltd.**

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地址 / Add: 〒 362-0021 日本埼玉县上尾市原市 1333-2
1333-2 Haraichi, Ageo-shi, 362-0021 Saitama, Japan

电话 / Tel: +81-48-775-3297

邮箱 / E-mail: marketing.cusinter@mitsui-kinzoku.com

网址 / Web: <https://www.mitsui-kinzoku.co.jp/mlab/en/attempt/ast/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电力供应 Power Supply, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

三井金属矿业株式会社创始于 1874 年, 是一家生产金属、机件材料和汽车零部件等的东京上市公司。是日本最大的企业集团之一三井集团的成员。

我们从 1980 年代开始提供金属粉末, 并开发了用于下一代功率半导体的烧结铜膏, 预计将成为一种高信赖性、高耐热性和环保(无铅)材料。利用在粉末控制技术方面的核心竞争力, 我们综合开发了自己专有的铜颗粒和铜膏。作为开发功率器件的环保材料, 铜膏为解决能源和环境问题做出了贡献。

Mitsui Mining & Smelting Co., Ltd (Mitsui Kinzoku), founded in 1874, is a Tokyo listed company producing metals, engineered materials, automotive parts etc. We're a member of Mitsui, one of Japan's biggest conglomerates.

We have provided metal powders since 1980's and developed a copper sinter paste for next-generation power semiconductors, expected to be a highly reliable, high heat resistant and environmentally friendly (lead-free) material. Using our core competence in powder control technology, we have integrally developed our own proprietary copper particles and pastes. As an environmentally friendly material for the development of power devices, our paste contributes to solving energy and global environmental issues.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 能源储存系统 Power Quality & Energy Storage

产品介绍 / Products Description:

烧结铜膏

Copper Sinter Paste



展位号 / Booth No: F04

昂氏 (上海) 电子贸易有限公司

Mouser Electronics



地址 / Add: 上海市长宁区娄山关路 555 号 2506-10 室

Rm 2506-2510, Metro Plaza Office Bldg., No. 555 Loushanguan Road, Shanghai, China

邮箱 / E-mail: shanghai@mouser.cn

网址 / Web: <https://www.mouser.cn/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

贸泽电子 (Mouser Electronics) 是全球授权半导体和电子元器件代理商, 致力于以高效的方式向电子设计工程师和采购推广新一代产品和新技术, 全面支持研发阶段的采购。Mouser.cn

一个芯片也可出货, 新一代产品信息和技术内容每日更新, 可在线搜寻超过 1200 家品牌制造商的 3100 多万种产品, 其中 680 多万种产品可直接在线订购, 产品涵盖的应用领域包括工业、机器人技术、物联网、新能源、汽车电子等。想深入了解贸泽电子, 请访问: <http://www.mouser.cn>

Mouser Electronics is a global factory authorized distributor of semiconductors and electronic components. We specialize in the rapid introduction of the newest products and technologies from our authorized manufacturers, supporting the newest designs as-well-as the manufacturing supply chain.

Mouser operates in 28 locations around the globe. We conduct business in 23 different languages and 34 currencies.

Mouser partners with over 1,200 industry-leading manufacturers, to introduce their new technologies. Our global distribution center contains more than a million unique, in-stock electronic components, all received directly from the factory, then shipped directly to you.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 散热管理 Thermal Management, 传感器 Sensors, 配置和子系统 Assemblies and Subsystems, 伺服技术 / 执行器 Electrical Drives, 智能运动 Intelligent Motion, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 测试和测量 Test & Measurement, 开发软件 Development Software, 信息与服务 Information & Services

产品介绍 / Products Description:

一个芯片也可出货, 新一代产品信息和技术内容每日更新, 可在线搜寻超过 1200 家品牌制造商的 3100 多万种产品, 其中 680 多万种产品可直接在线订购, 产品涵盖的应用领域包括工业、机器人技术、物联网、新能源、汽车电子等。

As a global factory authorized distributor of semiconductors and electronic component, we specialize in the rapid introduction of the newest products and technologies from our authorized manufacturers, supporting the newest designs as-well-as the manufacturing supply chain.

原厂授权代理商

海量器件一站直供, 上贸泽, 放心购

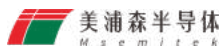


海量现货元器件
丰富库存一站享

展位号 / Booth No: C17

深圳市美浦森半导体有限公司

MSEMITEK Co.,Ltd



地址 / Add: 深圳市宝安区西乡街道中央大道 D 栋 16 楼

6 Floor, Zhong Yang Da Dao, Baoyuan Road, Baoan District, Shenzhen, China

电话 / Tel: +86-755-86958136

邮箱 / E-mail: sales@msemitek.com

网址 / Web: https://www.msemitek.com

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 照明 Lighting

公司简介 / Company Profile:

美浦森半导体 (MSemitek) 成立于 2014 年, 总部位于深圳, 是国内专业从事硅与碳化硅器件研发、生产和销售的公司, 国家级高新技术企业、国家级专精特新“小巨人”企业、深圳知名品牌 (湾区知名品牌)。在深圳、上海、苏州设有研发中心, 在深圳建立“MS OpenLab 美浦森实验室” (已通过国家级 CNAS 认可及广东省工程技术研究中心认定) 上海建立器件、应用验证中心。公司产品线包括: 高中低压 (Trench/SGT MOSFET、超结 MOSFET、Planar MOSFET)、碳化硅系列 (SiC Diode/MOSFET)、IGBT 系列 (单管 / 模块), 其广泛应用于 PC、服务器、工业电源、光伏、储能逆变、汽车电子、BMS、电机、电动工具、UPS 等领域。美浦森坚持投入先进制程研发、搭建系统级应用平台, 提升品质管控能力, 致力于提供性能卓越的产品, 为客户创造价值。

MSEMITEK Co., Ltd was established in 2014, the head office is in Shenzhen. It is a professional power semiconductor component designing company. It's a national high-tech enterprise. Our products contain medium power field effect tube (full series of high and low voltage products, Trench MOSFET/SGT MOSFET/ Super Junction MOSFET/ Planar MOSFET), SiC Diode, SiC MOSFET, IGBT and other series products.

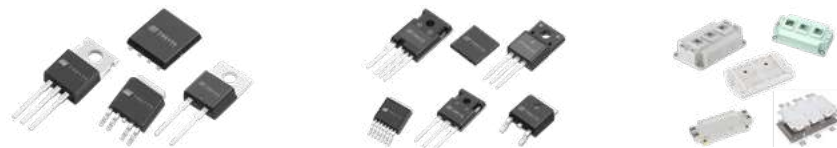
MSEMITEK has a research and development center in Shenzhen/Shanghai/Suzhou. We have semiconductor power components testing and application lab in Shenzhen, mainly responsible for product design verification, parameter testing, reliability verification, system analysis, failure analysis, etc., responsible for the research and development quality verification of products. At present, the semiconductor MOSFET and silicon carbide series products are widely used in LED power supply, PD power supply, PC and server power supply, photovoltaic inverter, UPS, charging pile, smart home, BLDC, BMS, small household appliances and other fields.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

高中低压 (Trench/SGT MOSFET、超结 MOSFET、Planar MOSFET)、碳化硅系列 (SiC Diode/MOSFET)、IGBT 系列 (单管 / 模块)



full series of high and low voltage products, Trench MOSFET/SGT MOSFET/ Super Junction MOSFET/ Planar MOSFET), SiC Diode, SiC MOSFET, IGBT and other series products.

展位号 / Booth No: C01

南京南瑞半导体有限公司

NANJING NARI SEMICONDUCTOR CO., LTD.



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邮箱 / E-mail: Nrlly_sales@sgepri.sgcc.com.cn

网址 / Web: http://www.sgepri.sgcc.com.cn

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电力供应 Power Supply, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

南京南瑞半导体有限公司成立于 2019 年, 总部位于江苏省南京市, 致力于功率半导体技术研究、应用及产业化发展, 实现电网领域核心功率半导体器件自主可控, 保障国家能源安全。公司汇聚了国内外一流的功率半导体研发及管理团队, 可提供从芯片设计、流片工艺开发、封装测试、器件应用到电力电子技术服务的全链条解决方案。产品已广泛应用于高压柔性输电、电能质量治理、特种电源、工业传动、风力发电、光伏发电、新型储能、制氢电源、充电设施和新能源汽车等领域。同时公司也是国家电网有限公司战略新兴产业培育重点单位、首批入选国资委“科改示范”企业之一和国网功率半导体产业统一平台。

Nanjing NARI Semiconductor Co., Ltd. was established in 2019, headquartered in Nanjing, Jiangsu Province, is committed to the industrialization development of power semiconductor technology research, product development, production, marketing, and technical services, to achieve the autonomous control of core power semiconductor devices in the energy field and ensure national energy security. The company brings together first-class power semiconductor R&D and management teams at home and abroad, and can provide a full-chain solution from chip design, wafer process development, packaging and testing, device application to power electronics technology services. Products have been widely used in high-voltage flexible transmission, power quality governance, special power supplies, industrial drives, wind power generation, photovoltaic power generation, new energy storage, hydrogen production power supplies, charging facilities and new energy vehicles and other fields. At the same time, the company is also a key unit for the cultivation of strategic emerging industries of State Grid Corporation of China, one of the first batch of companies selected into the "Science and Technology Reform Demonstration" of the State-owned Assets Supervision and Administration Commission, and the power semiconductor industry unified platform of SGCC.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

南瑞集团功率半导体产业领域具备 IGBT 和 SiC 功率半导体整体解决方案。自主研发 IGBT 模块已广泛应用于高压柔性直流输电、电能质量治理、风电变流器、光伏逆变器、储能变流器、工业变频器和新能源汽车等领域。



NARI Power Semiconductor industry is a high-tech industry providing high-performance IGBT & SiC Power Semiconductor solutions, which have been widely applied in fields such as -VSC-HVDC transmission, Power quality management, Wind power converters, Solar inverters, Energy storage converters, Industrial frequency converters, and Renewable energy vehicles.

展位号 / Booth No: B18

南京芯干线科技有限公司

NanJing X-IPM Technology Co.,Ltd



地址 / Add: 深圳市宝安区前海科兴科学园 8 栋 801 室

Room 801, Building 8, Kexing Science Park, Qianhai, Bao'an District, Shenzhen, China

邮箱 / E-mail: xiao.yu@x-ipm.com

网址 / Web: https://www.x-ipm.com/

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

芯干线科技是一家由功率半导体资深海归博士、电源行业市场精英和一群有创业梦想的年轻专业人士所创建宽禁带功率器件原厂。2022 年被评为规模以上企业, 2023 年国家级科技型中小企业、国家级高新技术企业, 通过了 ISO9001 生产质量管理体系认证。在 2024 年通过了 IATF16949 汽车级零部件生产质量管理体系认证。

公司自成立以来, 深耕于功率半导体 Si MOS & IGBT, GaN HEMT, SiC MOS & SBD, IGBT 和 SiC Module 等功率器件及模块的研发和销售。产品被广泛应用于消费、光伏、储能、汽车、AI 服务器、工业自动化等能源电力转换与应用领域。

X-IPM Technology was established in 2020 by a group of young professionals with entrepreneurial dreams. Since its establishment, X-IPM has been deeply engaged in the development of power semiconductor devices and modules such as Si MOS & IGBT, GaN HEMT, SiC MOS & SBD as well as semiconductor power modules. Our products are widely used in consumer, PV inverters, energy storage, automotive, AI server, industrial automation and other energy and power conversion related fields

In 2023, X-IPM was recognized as a national science and technology small and medium-sized enterprise and a national high-tech enterprise in China. X-IPM received ISO 9001 quality management system certification. In 2024, we received IATF16949 automotive-grade quality management system certification

产品范围 / Topics:

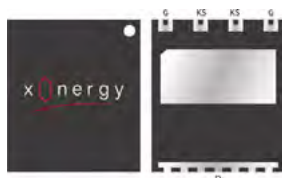
功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

GaN: 全新推出第三代 X3G 系列 GaN 单管与模块, 产品应用涵盖 100W-6KW 全数字控制电源模块, 使其功率密度更高、体积更小、效率更高、性能更稳定。彻底解决了前两代产品的频率低、温升高、功耗大的技术难题。一举打破了 E-MODE GaN 不能应用在大功率电源的魔咒, 实现了 6KW 以内的充电器、逆变器产品的批量应用。

SiC MOSFET: 针对于目前市场上 SiC MOSFET 产品参差不齐的现象, 南京芯干线科技有限公司严把质量关, 率先在国内建立了完整的第三代功率半导体 GaN 与 SiC 测试分选产线。通过严苛的 HTRB、HTGB、H3TRB 等一系列测试, 满足高可靠性要求的光伏、储能、车机等应用场所, 实现了 GaN 与 SiC 在汽车、工业充电器、光伏储能等行业的批量供货。

IGBT Module: 南京芯干线科技有限公司根据市场需求, 在 2023 年强势推出重量级高品质工业级与汽车级 IGBT 模块产品, 涵盖 650V、750V、1200V、1700V 等各个电压等级多款功率模块, 并在大型工商业储能、乘用车、商用车等各个行业投入应用, 赢得了市场一致好评。



GaN: the new launch of the third generation of X3G series GaN single tube and module, product applications covering 100W-6KW full digital control power supply module, so that higher power density, smaller size, higher efficiency, more stable performance. Completely solved the technical problems of low frequency, high temperature rise and high power consumption of the previous two generations of products. In one fell swoop, it breaks the spell of E-MODE GaN not being able to be applied in high-power power supply, and realizes the batch application of chargers and inverters within 6KW.

SiC MOSFET: In response to the phenomenon of uneven SiC MOSFET products in the current market, Nanjing CoreTrust Technology Co., Ltd. strictly controls the quality and takes the lead in establishing a complete third-generation power semiconductors GaN and SiC testing and sorting production line in China, which meets the high reliability requirements of photovoltaic, energy storage through the stringent HTRB, HTGB, H3TRB, and a series of tests, Through a series of tests, such as HTRB, HTGB, H3TRB, etc., we have met the high reliability requirements of photovoltaic, energy storage, automotive and other applications, and realized the batch supply of GaN and SiC in automotive, industrial chargers, photovoltaic energy storage industries.

IGBT Module: Nanjing CoreTrust Technology Co., Ltd. launched heavyweight and high-quality industrial-grade and automotive-grade IGBT module products according to the market demand in 2023, covering a variety of power modules at various voltage levels such as 650V, 750V, 1200V, 1700V, etc., which have been put into application in various industries such as large-scale industrial and commercial energy storage, passenger cars, commercial vehicles, etc., and won unanimous praise from the market. We have been applied in various industries such as large-scale industrial and commercial energy storage, passenger cars and commercial vehicles, and have won unanimous favorable comments from the market.

展位号 / Booth No: G06

南通威斯派尔半导体技术有限公司

Nantong Winspower Semiconductor Technology Co.,Ltd



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118 Shuangfu Road, High-tech Zone, Nantong City

邮箱 / E-mail: sales01@winspowersemi.com

网址 / Web: <https://www.winspowersemi.com/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting

公司简介 / Company Profile:

威斯派尔提供一流的覆铜陶瓷基板, 以满足电力电子市场的需求, 在使用 SiC MOSFET 或 Si 基 IGBT 半导体器件的功率电子模块中已成功批量应用。我们的陶瓷基板交期快速灵活, 适用范围广阔, 涵盖从低功率应用到要求苛刻的工业领域。威斯派尔掌握全制程工艺能力, 为客户提供定制化方案, 完美平衡成本和性能。

Winspower offers best-in-class metal ceramic substrates to meet the needs of the power electronics market, with successful batch applications in power electronics modules using SiC MOSFET or IGBT semiconductor devices. Our ceramic substrates offer fast and flexible delivery time for a wide range of applications, from low-power applications to demanding industrial applications. Winspower has mastered the full process capability to provide customized solutions, and perfectly balancing the cost and performance.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management

产品介绍 / Products Description:

1. 标准 AMB 覆铜陶瓷板系列: Si3N4-90 W/m.K: 满足 SiC 模块车规级要求, 银烧结 +SiN 基板要求;
2. Precede 领先 TM WSP 覆铜陶瓷板系列: Precede WSP65: ZTA-DBC 升级, 陶瓷散热两倍以上; 可靠性 5 倍以上;
3. Precede WSP90: 满足 SiC 模块车规级要求, 银烧结 +SiN 基板要求; 解决基板成本痛点
4. Precede WSP130: 130W/m.K 氮化硅陶瓷 + 金属活性钎焊。满足下一代更高能量密度 SiC 模块的散热要求; 解决基板成本痛点



1. Standard AMB Ceramic Substrate Series: Si3N4-90 W/m.K: Satisfying SiC module automotive grade needs, Supporting silver sintering + SiN substrate requirements.

2. Precede TM WSP Ceramic Substrate Series: Precede WSP65: Upgrade of ZTA-DBC, Ceramic heat dissipation is 2 times higher; 5 times more reliable

3. Precede WSP90: Meeting the requirements of SiC module, supporting silver sintering with SiN substrate process needs; Solving the pain points of substrate cost

展位号 / Booth No: E18

安世半导体

Nexperia

nexperia

地址 / Add: Jonkerbosplein 52, 6534 AB Nijmegen, The Netherlands

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网址 / Web: <https://www.nexperia.cn>

产品应用范围 / Scope of Applications:

Automation, E-mobility, Industrial Electronics, Solar Energy, Consumers Electronics, Power Supply, Communications, Automotive, Motor Control Drives, Wind Energy

公司简介 / Company Profile:

Nexperia 总部位于荷兰，是一家在欧洲拥有丰富悠久发展历史的全球性半导体公司，目前在欧洲、亚洲和美国共有 14,000 多名员工。作为基础半导体器件开发和生产的领跑者，Nexperia 的器件被广泛应用于汽车、工业、移动和消费等多个应用领域，几乎为世界上所有电子设计的基本功能提供支持。

Nexperia 为全球客户提供服务，每年的产品出货量超过 1,000 亿件。这些产品在效率（如工艺、尺寸、功率及性能）方面成为行业基准，获得广泛认可。Nexperia 拥有丰富的 IP 产品组合和持续扩充的产品范围，并获得了 IATF 16949、ISO 9001、ISO 14001 和 ISO 45001 标准认证，充分体现了公司对于创新、高效、可持续发展和满足行业严苛要求的坚定承诺。

Headquartered in the Netherlands, Nexperia is a global semiconductor company with a rich European history and over 14,000 employees across Europe, Asia, and the United States. As a leading expert in the development and production of essential semiconductors, Nexperia's components enable the basic functionality of virtually every electronic design in the world – from automotive and industrial to mobile and consumer applications.

The company serves a global customer base, shipping more than 100 billion products annually. These products are recognized as benchmarks in efficiency – in process, size, power, and performance. Nexperia's commitment to innovation, efficiency, sustainability, and stringent industry requirements are evident in its extensive IP portfolio, its expanding product range and its certification to IATF 16949, ISO 9001, ISO 14001 and ISO 45001 standards.

产品范围 / Topics:

Power Semiconductors Components and Modules

产品介绍 / Products Description:

Nexperia 碳化硅 MOSFET 的 RDSon 温度稳定性卓越、开关速度快且短路鲁棒性高，可满足日益增长的大功率和高电压工业应用需求，是电动汽车充电基础设施、光伏逆变器和电机驱动器的优选产品。

GAN039-650NTB 是一款 33 mΩ（典型值）的氮化镓场效应管，采用 CCPAK1212i 顶部散热封装技术，开创了宽禁带半导体和铜夹片封装相结合的新时代。这项技术为太阳能和家用热泵等可再生能源应用带来诸多优势，还适用于广泛的工业应用，如伺服驱动器、开关模式电源 (SMPS)、服务器和电信应用。

Addressing the growing demand for high-power and high-voltage industrial applications, Nexperia's Silicon Carbide MOSFETs, with their excellent RDSon temperature stability, fast switching speed, and high short-circuit ruggedness, make them the product of choice for E-vehicle charging infrastructure, photovoltaic inverters, and motor drives.

Nexperia GAN039-650NTB, a 33 mΩ (typ.) Gallium Nitride (GaN) FET within the CCPAK1212i top-side cooling package, ushers in a new era of wide bandgap semiconductors and copper-clip packaging. This technology offers advantages for renewable energy applications such as solar and residential heat pumps, also suited to a wide spectrum of industrial applications such as servo drives, switched-mode power supplies (SMPS), server, and telecom.



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展位号 / Booth No: B22**尼得科精密检测科技株式会社****NIDEC ADVANCE TECHNOLOGY CORPORATION**

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网址 / Web: <https://www.nidec.com/cn/nidec-advancetechnology/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

尼得科精密检测科技株式会社于 1991 年在日本京都正式成立。主营半导体封装检测装置、印刷电路板检测装置、检测治具、光学式外观检测装置以及测试台架等各种自动检测机器、特殊检测装置的开发、设计、制造和销售。凭借着日积月累的经验和技术，我们瞄准了“业界标准（de-facto standard）”，在高密度电路板、半导体封装、显示屏、LED 和太阳能电池等领域，同广大关心和支持我们的同仁一起不断飞跃成长。

Nidec Advance Technology Corporation was established in 1991 in Kyoto, Japan. The company specializes in the development, design, manufacture, and sales of Semiconductor Package Inspection Systems, Printed Circuit Board Inspection Systems, Inspection Fixture, Optical inspection equipment and Test bench for EV motors, inverters, and E-Axles. Building on the technical advances we have made since our inception, we are poised to drive forward business growth by establishing de facto standards in the field of high-density printed circuit boards, semiconductor packaging, flat-panel displays, light-emitting diodes (LED), and solar cells. We greatly appreciate your continued support and look forward to sharing with you the benefits of our innovation initiatives going forward.

产品范围 / Topics:

测试和测量 Test & Measurement

产品介绍 / Products Description:

NATS -1000: IGBT/SiC 模块全自动检测设备“NATS -1000”可在常温 / 高温环境下对 IGBT 模块和 SiC-MOSFET 模块的特性进行自动检测。通过各检测工作台相连接的方式实现高达 144UPH (25 秒 /Unit) 的工作量。采用 NIDEC 独创的低 LS 值构造实现对检测对象的高精度检测。

NATS-1630: IGBT/SiC 模块手动检测设备“NATS-1630”可面向 IGBT 模块和 SiC-MOSFET 模块之动态特性检测的手动检测装置。支持 200℃ 高温、±1500V/±12000A 的高电压、大电流检测。通过系统构建，也可应用于绝缘、静态特性的检测需求。



1.The NATS -1000 system is used to automatically inspect the characteristics of IGBT module and SiC-MOSFET module under normal temperature and high temperature conditions. High throughput of maximum 144UPH (25 sec/unit) is achieved by the inspection station jointing method. And realizes high-precision inspection with a low LS value structure.

2.The NATS-1630 system is a manual testing device for dynamic characterization of IGBT and SiC-MOSFET modules. It supports 200℃ high temperature, ±1500V/±12000A high voltage and high current detection. Through system construction, it can also be applied to insulation and static characteristics detection needs.

展位号 / Booth No: G30

宁波合盛新材料有限公司

Ningbo Hesheng New Materials Co., Ltd.

HOSHINE
合盛新材料

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1999-9, Zhouxi Road, Zhouxiang Town, Cixi City (county-level city of Ningbo City), Zhejiang Province, China

邮箱 / E-mail: salesal@hsmmcs.com

网址 / Web: <http://www.hs-mmcs.com/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction

公司简介 / Company Profile:

宁波合盛新材料有限公司成立于 2018 年, 是一家专业从事新型材料研究和生产的高新技术企业。公司注册资本 1 亿元, 由上市公司合盛硅业股份有限公司发起成立并控股。公司业务涵盖第三代半导体 SiC 衬底及外延的研发、生产与销售。

目前, 合盛新材料已建成导电型 6 英寸碳化硅衬底与外延片产线: 正在建设 8 英寸衬底与外延片产线, 已实现投资规模超过 10 亿元。未来随着产线规模的继续扩大, 合盛新材料将成长为具有国际竞争力的碳化硅半导体材料研发和生产企业。

Founded in 2018, Ningbo Hesheng New Materials Co., Ltd. is a high-tech enterprise specializing in the research and production of new materials. The registered capital of the company is 100 million yuan, which is initiated and held by the listed company HOSHINE Silicon Industry Co., LTD. The company's business covers the development, production and sales of third-generation semiconductor SiC substrates and epitaxial wafer.

At present, Hesheng New Materials has built a conductive 6-inch silicon carbide substrate and epitaxial wafer production line. It is building an 8-inch substrate and epitaxial wafer production line, and has achieved an investment scale of more than 1 billion yuan. In the future, with the continuous expansion of production line scale, Hesheng New Materials will grow into an internationally competitive silicon carbide semiconductor material research and development and production enterprise.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

导电型碳化硅衬底: 碳化硅衬底是碳化硅器件的基础材料, 碳化硅器件的制备均在衬底上生长的外延层进行, 晶体与衬底制造是化合物半导体产业链中价值最高、最重要的环节。导电型衬底主要用来生长碳化硅外延, 制作功率器件。

导电型碳化硅外延片: 是指在碳化硅衬底上生长了一层有一定要求的、与衬底晶相同的单晶薄膜(外延层)的碳化硅片。目前所有的碳化硅器件基本上都是在外延上实现的, 外延环节是产业链的中间环节。



Conductive SiC substrate: SiC substrate is the basic material of silicon carbide devices, silicon carbide devices are prepared in the epitaxial layer grown on the substrate, crystal and substrate manufacturing is the highest value in the compound semiconductor industry chain, the most important link. Conductive substrate is mainly used to grow silicon carbide epitaxy and make power devices.

Conductive SiC epitaxial wafer refers to a silicon carbide wafer grown on a silicon carbide substrate with certain requirements, and the same as the substrate crystal single crystal film (epitaxial layer). At present, all silicon carbide devices are basically realized on the epitaxy, and the epitaxy link is the middle link of the industrial chain.

展位号 / Booth No: C24

宁波安建半导体有限公司

Ningbo JSAB Semiconductor Company Limited



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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 通信 Communications, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

安建半导体有限公司是一家专门从事功率半导体元器件产品设计、研发及销售的高科技公司, 拥有由香港科技大学教授、大中华区唯一的一位从事硅基功率半导体研究的美国电子电气工程师学会院士 (IEEE Fellow) 所领衔的业内顶尖技术团队。在 2020 年中国创新创业大赛中荣获全国赛优秀企业奖、广东省分赛区“新一代信息技术”产业大类第四名。安建半导体集团总部位于浙江宁波, 并在宁波自建模块封装工厂——吉赛半导体, 同时在中国香港、广东深圳分别设有安建科技和安建科技(深圳)两个附属子公司。

JSAB Semiconductors Limited is a high-tech company specializing in the R&D, design and sales of power semiconductor components. It is led by the professor of Hong Kong University of Science and Technology, and the only IEEE Fellow engaged in silicon-based power semiconductor research in Greater China. The company won the excellent enterprise award of the national competition, and the fourth place in the category of "new generation information technology" industry in Guangdong Province in the 2020 China Innovation and entrepreneurship competition. JSAB Semiconductor Group is headquartered in Ningbo, Zhejiang province, and has built — module packaging factory in Ningbo. At the same time, it has two subsidiaries of JSAB Technologies and JSAB Technologies (Shenzhen).

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1、IGBT

第七代沟槽 - 场截止型 (Trench-FS) IGBT。

12 英寸“Taiko”薄片, 国内顶级晶圆厂代工, 供货稳定。

搭配自研的快恢复二极管, 电性能和可靠性优越。

自有模块封测工厂, 产品性能拔尖、稳定可靠。

2、SiC

自主研发设计。

国内顶级晶圆厂代工 6 英寸 SiC。

晶圆创新的 SiC-SBD、SiC-MOSFET 芯片结构, 工艺流程和版图设计。

独特的耐压结构设计, 确保产品的雪崩耐量及可靠性。

3、SGT-MOS

自主研发设计, 国内顶级晶圆厂代工 8 英寸 SGT。

成熟量产中低压平台, 广泛应用于工业及汽车领域。

独特版图及结构设计, 达到高功率密度和长期可靠性。



1.IGBT

Gen. 7 Trench-FS IGBT.

MP in both 12-inch and 8-inch fabs with advanced "Taiko" thin-wafer technology.

Superior electrical performance and reliability with self-developed FRD.

Top performance, stable and reliable products produced by JSAB power module assembly factory.

2.SiC

Innovations and IPs owned by JSAB.

Fabricated in the most top 6-inch SiC foundry in mainland China.

Creative design in SiC MOS/SBD chip layout, structure, and process flow, delivering ultra low conduction and switching losses.

Distinctive edge termination design, offering high avalanche capability and high reliability.

3.SGT-MOS

Innovations and IPs owned by JSAB, fabricated in the top 8-inch SGT foundry in mainland China.

Matured mass production of medium-low voltage platforms, widely used in industrial and automotive applications.

Distinctive layout and structural design, achieving high power density and long-term reliability.

展位号 / Booth No: C42

宁波尚进自动化科技有限公司

Ningbo ShangJin Automation Technology Co., Ltd.



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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 光伏 Solar Energy, 航空航天 Aerospace, 照明 Lighting, 通信 Communications, 风能 Wind Energy

公司简介 / Company Profile:

尚进自动化是一家专注研发制造半导体封装设备及工艺技术、精密自动化装备的科技型企业。

公司主要从事引线键合设备的研发、生产和销售, 应用领域涵盖集成电路、分立器件、光通信器件、激光器件、微波组件、传感器、MEMS、智能仪器专用器件、新能源电力器件和功率半导体等。

Ningbo Shangjin Automation Technology Co., Ltd. is a technological enterprise focusing on the research, development and manufacture of semiconductor packaging equipment and process technology, precision automation equipment.

Company is mainly engaged in development, production and sales of wire bonder, application field including Integrated Circuit, Discrete Device, Optical Communication Device, Laser Device, Microwave Component, Sensor, MEMS, Intelligent Instrument Specialized Device, New Energy Power Device and Power Semiconductor Device, etc.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 传感器 Sensors, 能源储存系统 Power Quality & Energy Storage, 测试和测量 Test & Measurement

产品介绍 / Products Description:

全自动球焊键合机

全自动深腔键合机

全自动粗丝键合机



Fully Automatic Ball Bonder



Fully Automatic Deep Access Wire Bonder



Fully Automatic Heavy Wire Wedge Bonder

展位号 / Booth No: B46

诺信测试与检验

Nordson TEST & INSPECTION



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网址 / Web: <https://www.nordson.com>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

Nordson 成立于 1954 年, 是一家市场领先的公司工业技术公司, 年收入超过 21 亿美元, 全球员工超过 7500 人。Nordson TEST & INSPECTION 拥有完整的测试与检测解决方案, 提供 SMT 和半导体客户强大的产品组合, 包括声学、光学以及手动和自动 X 射线检查系统, X 射线组件计数系统和半导体测量传感器。并提供相关的软件研发、技术咨询、维修维护及售后服务。

Founded in 1954, Nordson Corporation is a market leading industrial technology company with annual revenues of over \$2.1 billion and more than 7,500 employees worldwide. Nordson TEST & INSPECTION offers its SMT & Semiconductor customers a robust product portfolio, including Acoustic, Optical and both Manual and Automated X-ray Inspection systems, X-ray Component Counting systems and Semiconductor measurement sensors. Nordson TEST & INSPECTION is uniquely positioned to serve its customers with best-in-class precision technologies, passionate sales and support teams, global reach, and unmatched consultative applications expertise.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 测试和测量 Test & Measurement

产品介绍 / Products Description:

高速、全自动在线和离线 X 射线检测系统, 光学检测与计量检测系统。



X-ray & Test Systems, Acoustic Microscopy Inspection, Automated Optical Inspection

展位号 / Booth No: D32

安森美
onsemi

地址 / Add: 科学园东区 1 号 2 楼 201-209 室、237-238 室

Unit 201-209, 237-238, 2/F, No.1 Science Park East

电话 / Tel: 852-26890350

邮箱 / E-mail: April.Liu@onsemi.com

网址 / Web: <https://www.onsemi.cn/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 电力供应 Power Supply, 照明 Lighting, 医疗电子 Medical Electronics, 通信 Communications, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

安森美 (onsemi, 纳斯达克股票代码: ON) 致力推动颠覆性创新, 打造更美好的未来。公司关注汽车和工业终端市场的大趋势, 加速推动汽车功能电子化和汽车安全、可持续电网、工业自动化以及 5G 和云基础设施等细分领域的变革创新。安森美提供高度差异化的创新产品组合以及智能电源和智能感知技术, 以解决全球最复杂的挑战, 引领创造更安全、更清洁、更智能的世界。安森美位列《财富》美国 500 强, 也被纳入纳斯达克 100 指数和标普 500 指数

onsemi (Nasdaq: ON) is driving disruptive innovations to help build a better future. With a focus on automotive and industrial end-markets, the company is accelerating change in megatrends such as vehicle electrification and safety, sustainable energy grids, industrial automation, and 5G and cloud infrastructure. With a highly differentiated and innovative product portfolio, onsemi creates intelligent power and sensing technologies that solve the world's most complex challenges and leads the way in creating a safer, cleaner, and smarter world. onsemi is recognized as a Fortune 500® company and included in the Nasdaq-100 Index® and S&P 500® index.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1. QDual3 功率模块

与其他同类产品相比, QDual3 模块的功率密度更高, 且提供高 10% 的输出功率, 基于新的场截止第 7 代 (FS7) IGBT 技术, 带来业界领先的能效表现, 有助于降低系统成本并简化设计。应用于 150 千瓦的逆变器中时, QDual3 模块的损耗比同类最接近的竞品少 200 瓦 (W), 从而大大缩减散热器的尺寸。QDual3 模块专为在恶劣条件下工作而设计, 非常适合用于大功率变流器, 例如太阳能发电站中央逆变器、储能系统 (ESS)、商用农业车辆 (CAV) 和工业电机驱动器。



2. 最新一代 EliteSiC M3e MOSFET

凭借安森美独特的设计和制造能力, EliteSiC M3e MOSFET 在可靠且经过实际验证的平面架构上显著降低了导通损耗和开关损耗。与前几代产品相比, 该平台能够将导通损耗降低 30%, 并将关断损耗降低多达 50%。通过延长 SiC 平面 MOSFET 的寿命并利用 EliteSiC M3e 技术实现出色的性能, 安森美可以确保该平台的坚固性和稳定性, 使其成为关键电气应用的首选技术。



EliteSiC M3e MOSFET 还提供超低导通电阻 (RSP) 和抗短路能力, 这对于占据 SiC 市场主导地位的主驱逆变器应用来说至关重要。采用安森美先进的分立和功率模块封装, 1200V M3e 裸片与之前的 EliteSiC 技术相比, 能够提供更大的相电流, 使同等尺寸主驱逆变器的输出功率提升约 20%。换句话说, 在保持输出功率不变的情况下, 新设计所需的 SiC 材料可以减少 20%, 成本更低, 并且能够实现更小、更轻、更可靠的系统设计。

EliteSiC M3e MOSFET 能够在更高的开关频率和电压下运行, 该平台可有效降低电源转换损耗, 这对于电动汽车动力系统、直流快速充电桩、太阳能逆变器和储能方案等广泛的汽车和工业应用至关重要。此外, EliteSiC M3e MOSFET 将促进数据中心向更高效、更高功率转变, 以满足可持续人工智能引擎指数级增长的能源需求。

3. PowerTrench® T10 系列

PowerTrench® T10 系列专为处理对 DC-DC 功率转换级至关重要的大电流而设计，以紧凑的封装尺寸提供了更高的功率密度和卓越的热性能。这是通过屏蔽栅极沟槽设计实现的，该设计具有超低栅极电荷和小于 1 毫欧的导通电阻 $R_{DS(on)}$ 。此外，软恢复体二极管和较低的 Q_{rr} 有效地减少了振铃、过冲和电气噪声，从而确保了在压力下的最佳性能、可靠性和稳健性。通过使用 PowerTrench® T10 系列和 EliteSiC 650V 解决方案，数据中心能够减少约 1% 的电力损耗。如果在全球的数据中心实施这一解决方案，每年可以减少约 10 太瓦时的能源消耗。PowerTrench® T10 系列还符合汽车应用所需的严格标准。



展位号 / Booth No: C58

瑞爱实用控制科技 (苏州) 有限公司

PETERCEM SENSORS



MAFELEC TEAM

地址 / Add: 江苏省苏州市苏州工业园区星汉街 5 号 腾飞新苏工业坊 C 幢 2 楼 03/04 单元
Block C, #03-04/02, No. 5 Xing Han Street Suzhou Jiangsu 215021, P.R.C. China

电话 / Tel: +86-512-62880581

邮箱 / E-mail: maggie.gong@mafelec.net.cn

网址 / Web: <http://www.mafelec.net.cn>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 医疗电子 Medical Electronics, 风能 Wind Energy

公司简介 / Company Profile:

瑞爱实用控制科技 (苏州) 有限公司, 为法国 MAFELEC 集团中国分公司, 由 MAFELEC Singapore Pte Ltd 全资控股。

是 MAFELEC 集团下属所有品牌产品 (核电专用产品除外) 在中国的进口商, 并负责其销售和售后服务工作。

J&A Apply Control Technology (Suzhou) Co., Ltd. is a wholly foreign owned subsidiary of Mafelec Singapore Pte Ltd.

J&A Apply Control Technology (Suzhou) Co., Ltd. is the approved importer, distributor and service provider for Mafelec product.

产品范围 / Topics:

传感器 Sensors

产品介绍 / Products Description:

电压、电流传感器; 各类低压开关、按钮、指示灯; 照明灯具; 绝缘子。



电压检测
电子技术



1500 VDC/3000 VDC



电压传感器
电子技术



50 V 到 4200 V



电流传感器



用环

300 A 到 2500 A



金电子技术

4000 A 到 20000 A

Current Sensor, Voltage Sensor; Switches; Indicator Light; Lighting fixtures; Insulator

展位号 / Booth No: E06

Power Integrations



地址 / Add: 广东省深圳市南山区科技南八路二号楼威科技大厦 17 楼

17F, Hivac Building, No.2 Keji South Rd, Nanshan District, Shenzhen

网址 / Web: <https://www.power.com>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

Power Integrations, Inc. 是一家专注于高压电源管理及控制领域的高性能电子元器件及电源方案的供应商, 总部位于美国硅谷。我们所推出的集成电路和二极管为包括移动设备、家电、智能电表、LED 灯以及工业应用的众多电子产品设计出小巧紧凑的高能效 AC-DC 电源。我们的 SCALE 门极驱动器可提高大功率应用的效率、可靠性和成本效益, 其应用领域包括工业电机、太阳能和风能系统、电动汽车和高压直流输电等。自 1998 年问世以来, Power Integrations 的 EcoSmart 节能技术已节省了数十亿美元的能耗, 避免了数以百万吨的碳排放。由于我们的产品对环境保护的作用, Power Integrations 的股票已被归入到由 Cleantech Group LLC 及 Clean Edge 赞助的环保技术股票指数下。请访问我们的 "Green Room", 获得有关全球能效标准的综合指南。

Power Integrations, Inc., is a leading innovator in semiconductor technologies for high-voltage power conversion. Our products are key building blocks in the clean-power ecosystem, enabling the generation of renewable energy as well as the efficient transmission and consumption of power in a vast range of applications including appliances, mobile devices, computers and countless industrial applications.

Energy-saving technologies such as our PowiGaN™ gallium-nitride technology and our EcoSmart™ energy-efficiency technology prevent billions of kilowatt-hours of energy waste each year, while our highly integrated chips save billions of electronic components each year. Reflecting the environmental benefits of our products, Power Integrations' stock is a component of clean-technology stock indices sponsored by Cleantech Group LLC and Clean Edge, and our Green Room provides a comprehensive guide to energy-efficiency standards around the world.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 电力供应 Power Supply

产品介绍 / Products Description:

SCALE-iFlex™ XLT 系列双通道即插即用型门极驱动器

适配单个 LV100 (三菱)、XHPTM 2 (英飞凌)、HPnC (富士电机) 以及耐压高达 2300V 的同等功率模块, 该模块适用于储能系统以及风电和光伏可再生能源应用。该款超紧凑单极驱动器可对逆变器模块进行主动升温管理, 从而提高系统利用率, 并简化物料清单 (BOM) 以提高逆变器系统的可靠性。

Scale-EV 2SP0215F2Q0C 双通道门极驱动器

适用于驱动 IGBT 开关的 Infineon™ EconoDUAL™ 17mm 模块。即插即用型门极驱动器专为要求汽车级认证的应用而设计, 例如电动巴士、电动卡车、纯电动汽车、混合动力电动汽车或电池工作电压高达 1000V 的燃料电池逆变器。此门极驱动器可提供汽车相关的保护功能和诊断功能。电气绝缘的 IGBT 模块集成的 NTC 读出器可提供 IGBT 模块温度信息。

BridgeSwitch™-2 全新高压集成半桥 (IHB) 电机驱动器 IC 产品系列

进一步增强无刷直流电机 (BLDC) 的软硬件组合解决方案。此产品适合高达 1 马力 (746W) 的应用场景。IC 内部集成了上管和下管的驱动以及两个性能加强的 FREDFET, 内部采用无损的电流检测, 可提供高达 99% 的逆变器效率。IHB 架构消除了系统中的集中发热点, 可提高设计的灵活性和可靠性, 并可大幅减少元件数量, 节省 PCB 面积。BridgeSwitch-2 由 Power Integrations 的 MotorXpert™ 软件套件提供支持, 其中包括单相梯形控制 and 三相无传感器磁场定向控制 (FOC) 模块, 可加快逆变器的开发速度。



SCALE-iFlex™ XLT family of dual-channel plug-and-play gate drivers for operation of single LV100 (Mitsubishi), XHP™ 2 (Infineon), HPnC (Fuji Electric) and equivalent semiconductor modules up to 2300 V blocking voltage for wind, energy storage and solar renewable energy installations. This single-board driver enables active thermal management of inverter modules for improved system utilization and reduces the bill-of-material count for increased reliability.

Scale-EV 2SP0215F2Q0C

The 2SP0215F2Q0C is a dual channel gate driver for Infineon™ EconoDUAL™ 17 mm modules driving IGBT switches. The Plug-and-Play gate driver board is designed for applications requiring automotive qualification like electronic buses, electronic trucks, battery electrical vehicles, hybrid electrical vehicles or fuel cell inverters operating up to 1000 V battery voltage.

The gate driver provides automotive related protection functionalities and diagnostics. A galvanic isolated IGBT module integrated NTC read-out provides IGBT module temperature information.

BridgeSwitch™-2, a new high-voltage integrated half-bridge (IHB) motor-driver IC family targeting applications up to 1 HP (746 W). The new ICs, which feature high- and low-side drivers and advanced FREDFETs with integrated lossless current sensing, deliver inverter efficiency of up to 99 percent. The IHB architecture eliminates hot spots, which increases design flexibility and reliability, slashes component count and saves PCB area. BridgeSwitch-2 is supported by Power Integrations' MotorXpert™ software suite which includes single-phase trapezoidal control and three-phase sensor-less Field Oriented Control (FOC) modules, speeding inverter development.

展位号 / Booth No: E52

PowerCubeSemi, Inc



地址 / Add: 414, 686, Cheonggyesan-ro, Sujeong-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

电话 / Tel: +82-31-758-3701

邮箱 / E-mail: dhkim@powercubesemi.com

网址 / Web: <https://powercubesemi.com/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 计算电子 Computing Electronics, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

PowerCubeSemi aims to grow into a technology-intensive company that makes reliable power semiconductors to meet customers' needs. In order to prepare for the rapidly changing global semiconductor industry, we strive to predict the future and identify customer needs, and continue to do our best to develop technologies to diversify R&D technologies. In 2017, the company expanded its business to the heater field and designed and manufactured specialized products to provide optimal heater solutions to customers.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

Switching Device; Si SuperJunction MOSFET, SiC MOSFET



展位号 / Booth No: C26

山东阅芯电子科技有限公司

Prime-Rel Electronic Technology Co., Ltd



地址 / Add: 山东省荣成市崂山南路 788 号

NO.788, Laoshan Road, Rongcheng, Shandong Province

电话 / Tel: +86-025-52122516

邮箱 / E-mail: sale@prime-rel.com

网址 / Web: https://www.prime-rel.com

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 汽车工程 Automotive

公司简介 / Company Profile:

阅芯科技是一家专注功率器件智能检测装备开发、制造以及大数据管理的高新技术企业。公司产品包含动态、热阻和功率循环、环境老化、HAST 等高效率、高精度和高可靠性的功率器件检测设备。公司产品以其高度集成化、可定制化、模块化的优势, 广泛应用于半导体功率器件设计、制造、封装厂商及高校研究所等单位。拥有专利 130 余项, 并通过国家 ISO9001 质量管理体系认证。经过多年行业深耕, 积累了丰富的上下游产业资源。

Prime-Rel Electronic Technology Co., Ltd is a high-tech enterprise focusing on the development, manufacturing and big data management of intelligent testing equipment for power devices. The company's products include dynamic and static, thermal resistance and power cycle, environmental aging, HAST and other high-efficiency, high-precision and high-reliability power device testing equipment. The company's products with its highly integrated, customizable, modular advantages, widely used in semiconductor power device design, manufacturing, packaging manufacturers and university research institutes and other units. Has more than 130 patents, and through the national ISO9001 quality management system certification. After years of industry deep cultivation, has accumulated a wealth of upstream and downstream industrial resources.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 测试和测量 Test & Measurement

产品介绍 / Products Description:

1、全自动静态特性智能测试系统—AVATAR-D & AVATAR-S

AVATAR 系列动静态设备支持接入全自动化测试系统, 同时兼容半自动测试方案, 满足生产线及实验室多种使用环境需求, 测试方案完全符合 IEC60747-9 国际标准。

2、无功 / 有功老化综合测试设备 - MAXWELL1200

一款专门用于车规级模块出厂前的无功 / 有功老化筛选, 模拟车规级模块上车应用场景考核, 剔除早期失效器件, 支持手动测试或者全自动测试。



1、Automatic dynamic and static characteristics intelligent test system - AVATAR-D & AVATAR-S

AVATAR series dynamic and static equipment supports access to a fully automated test system, and is compatible with semi-automatic test schemes to meet the needs of production lines and laboratories in a variety of use environments, and the test schemes fully comply with IEC60747-9 international standards.

2、Reactive power/active power aging test equipment - MAXWELL1200

It is specially used for reactive power/active power aging screening before the vehicle gauge module leaves the factory, simulating the application scenario assessment of the vehicle gauge module, eliminating early failure devices, supporting manual testing or automatic testing.

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展位号 / Booth No: H10**江苏快克芯装备科技有限公司****QUICK Semiconductor Technology Co.,Ltd.**

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地址 / Add: 江苏省常州市武进区高新区凤翔路 11 号

No.11 Fengxiang Road, Wujin High-Tech Development Zone, Changzhou, Jiangsu, China.

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邮箱 / E-mail: semiinfo@quick-global.com

网址 / Web: <https://www.quick-global.com>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

江苏快克芯装备科技有限公司是快克智能 (603203. SH) 全资子公司, 旨在落实公司战略规划, 着力打造半导体封装成套解决方案, 积极布局先进封装高端设备领域, 实现半导体业务板块做强做大。

依托精密焊接工艺及装备自动化技术的积淀, 公司自主研发微纳金属烧结设备、预烧结固晶机、IGBT 多功能固晶机、真空焊接炉、甲酸焊接炉及固晶键合 AOI, 为功率半导体客户提供成套封装设备解决方案; 同时, 公司将持续研发高精高速固晶机及先进封装领域高端装备。

QUICK Semiconductor Technology Co.,Ltd is a wholly-owned subsidiary of QUICK Intelligent, with the aim of implementing the company's strategic plan, focusing on solutions for semiconductor packaging equipment.

Our equipment and solutions are targeted at packaging fields, with products covering die bonding, sintering, formic acid soldering, vacuum soldering and inspection, which are applied in microelectronics, semiconductor, optoelectronics, power modules.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

SiC 功率半导体封装 - 银烧结解决方案

快克智能装备股份有限公司自主研发的微纳金属烧结设备, 突破第三代半导体功率芯片封装“卡脖子”技术, 已被江苏省工信厅认定关键核心技术(装备)攻关产业化项目。

搭配公司自主研发的预烧结固晶机, 提供 SiC 功率半导体封装银烧结工艺成套自动化解决方案, 助力用户实现量产智造。

根据客户不同的应用需求: 实验室、试生产、小批量及量产等, 快克智能提供多款离线及在线型号设备, 具有独立自主知识产权的众多创新功能。

功率半导体封装成套解决方案

1. 公司开发的 IGBT 多功能固晶机支持多种上料方式: 晶圆上料、Tray 供料、锡片供料、8mm 飞达等满足客户不同产品的生产需求。
2. 一体隧道式设计的甲酸焊接炉具备专利设计的产品输送方式可有效防止卡料现象。
3. 具备 AI 深度学习的固晶键合 AOI 可检出芯片位置偏位、芯片外观损伤、裂纹、崩边等缺陷, 同时测量 DBC 的翘曲度。
4. 配置前切及后切功能的粗铝线焊线机可满足多种功率模块产品的需求。
5. 成套半导体封装设备基于同一软件框架开发, 支持 SMEMA 联机通讯协议, 支持 SECS/GEM 协议。



展位号 / Booth No: E52

无锡科尔泰检测技术有限公司

QRT(CHINA)CO.,LTD.



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电话 / Tel: 0510-8113-5862

邮箱 / E-mail: hailing.zhao@keertai.com

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产品应用范围 / Scope of Applications:

工业电子 Industrial Electronics, 航空航天 Aerospace, 消费电子 Consumers Electronics, 电力供应 Power Supply, 照明 Lighting, 通信 Communications, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

科尔泰作为一个拥有 40 年历史的半导体可靠性评估及不良分析领域的领军企业, 始终致力于为客户提供最高水平的服务。在这四十年的岁月里, 我们不断创新, 追求卓越, 树立了行业标杆。

随着科技的不断进步, 半导体芯片可靠性技术的重要性日益凸显。我司不仅致力于提升现有的半导体芯片可靠性技术的评估与分析服务, 更积极地投身于未来技术的研发。自主研发了 SSD RDT 可靠性检测设备、RF 射频分析系统、SEE 软错误分析系统、AI Module 测试仪和 Burn-in 系统。

展望未来, 科尔泰将继续秉承“客户至上, 技术领先”的理念, 不断创新, 追求卓越。我们将以更加饱满的热情和更加专业的技术, 为客户提供更加全面、深入的半导体可靠性检测评估服务, 共同推动半导体产业的繁荣发展。

With the continuous advancement of science and technology, the importance of semiconductor chip reliability technology has become increasingly prominent. Our company is not only committed to improving the evaluation and analysis services of existing semiconductor chip reliability technology but also actively engaged in the research and development of future technologies. We have independently developed SSD RDT reliability testing equipment, RF radio frequency analysis system, SEE soft error analysis system, AI Module tester, and Burn-in system.

Looking to the future, QRT will continue to uphold the concept of "customer first, technology leadership", innovate, and pursue excellence. We will provide customers with more comprehensive and in-depth semiconductor reliability testing and evaluation services with more enthusiasm and more professional technology, and jointly promote the prosperity and development of the semiconductor industry.

产品范围 / Topics:

测试和测量 Test & Measurement

产品介绍 / Products Description:

产品一:

1. 可靠性检测服务

- 半导体产品寿命 / 环境 / 物理试验、Memory/ SSD RDT 可靠性检测、汽车电子可靠性检测 (AEC-Q, OEM)、板阶可靠性检测 (BLRT)、静电放电测试 (ESD)

2. 综合失效分析

- 非破坏性分析、样品制备、失效定位、电性分析、材料分析

3. 软件硬件

- 可靠性测试程序、自动化测试操作软件、智能化寿命预测软件、可靠性测试板设计制造、老化测试插座

4. 高端仪器设备

- SSD 可靠性验证设备、5G RF 射频可靠性检测设备、SER 软错误分析系统、AI 人工智能模组检测设备

产品二: RF 射频分析系统

随着全球 5G 时代的到来, 射频通信在自动驾驶、智能家居、智慧工厂、远程医疗等多个领域得到广泛应用, 对 RF 射频芯片的可靠性测试提出了更高要求。

1. 高集成度射频测试解决方案, 内置 RF 信号发生器

2. 支持高功率、宽频带 RF 产品测试

3. 独立控制、实时监测每个被测单元 RF-input & output, Current, Voltage, Temperature. 等数据。

4. 智能分析、预测 RF 产品寿命

产品三：AI 芯片、模组可靠性测试设备

As semiconductors are getting closer to human life, reliability is becoming more important than before. For example, Memory for data storage & NPU for data calculating, and data processing reliability are very important.

Since QRT is at the center of reliability evaluation, QRT has developed an AI Module tester and Burn-in system based on our experience.

1. Reliability testing by measuring product limits at both chip and module levels.
2. Thermal Simulation and Corresponding Liquid Plate
3. Provide user-friendly programs for customers to enhance convenience



Product1:

1. Reliability test services
 - Semiconductor product life/environmental/physical testing, Memory/SSD RDT reliability testing, automotive electronics reliability testing (AEC-Q, OEM), board-level reliability testing (BLRT), electrostatic discharge testing (ESD)
2. Failure analysis
 - Non-destructive analysis, sample preparation, failure location, electrical analysis, material analysis
3. Software and hardware
 - Reliability test procedures, automated test operation software, intelligent life prediction software, reliability test board design and manufacturing, aging test sockets
4. High-end instruments and equipment
 - SSD reliability verification equipment, 5G RF radio frequency reliability testing equipment, SER soft error analysis system, AI artificial intelligence module testing equipment.

Product2: RF Analysis System

With the advent of the global 5G era, RF communications have been widely used in many fields such as autonomous driving, smart homes, smart factories, and telemedicine, which has put forward higher requirements for the reliability testing of RF chips.

1. Highly integrated RF test solution with built-in RF signal generator
2. Support high-power, wide-bandwidth RF product testing
3. Independent control and real-time monitoring of each unit under test RF input & output, Current, Voltage, Temperature, and other data.
4. Intelligent analysis and prediction of RF product life

Product3: AI chip, module reliability test equipment

As semiconductors are getting closer to human life, reliability is becoming more important than before.

For example, Memory for data storage & NPU for data calculating, and data processing reliability are very important.

Since QRT is at the center of reliability evaluation, QRT has developed an AI Module tester and Burn-in system based on our experience.

1. Reliability testing by measuring product limits at both chip and module levels.
2. Thermal Simulation and Corresponding Liquid Plate
3. Provide user-friendly programs for customers to enhance convenience

展位号 / Booth No: F34-A

乐温半导体

RAON SEMICONDUCTOR Co.,Ltd



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电话 / Tel: 0755-22651953

邮箱 / E-mail: jhson@good-prosper.com

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 电机工程 Electrical Engineering, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

IPM 专业企业 Raon Semiconductor 聚集了拥有 25 年以上经验的电力半导体专家, 于 2021 年成立了公司。IPM 是将大功率开关元件 IGBT 和快速恢复二极管 (FRD)、启动该元件的栅极驱动器 IC(HVIC·LVIC) 集成在一个封装中的产品。2023 年推出 20~50A 的 GPM3、GPM2 系列, 2024 年计划推出 15~30A 的 GPM5 系列。Raon 将以新技术开发为基础, 从 SI 基础模块扩展到 SiC 基础模块, 从家用及工业电源模块扩展到汽车应用模块。

计划在 2024 年推出从 15A 到 30A 的 GPM5 生产线。

Raon 将以新技术开发为基础, 从 SI 基础模块扩展到 SiC 基础模块, 从家庭用和工业用电源模块扩展到汽车应用模块。

Raon was founded by power semiconductor experts with over 25 years of experience, with the mission to develop high-efficiency power modules that customers can use with the utmost convenience, contributing to the creation of a sustainable green future. Since December 2021, we have begun developing high-efficiency Intelligent Power Modules (IPMs) and launched the GPM3, GPM2 lineup ranging from 20A to 50A in 2023. Plans are in place to release the GPM5 lineup from 15A to 30A in 2024.

Raon is committed to continuous technological development, expanding its business from SI-based modules to SiC-based modules, and from power modules for home and industrial use to modules for automotive applications.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 伺服技术 / 执行器 Electrical Drives, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage

产品介绍 / Products Description:

绿色功率模块 GPM2, GPM3, GPM5

具有坚固的转移成型结构, 可实现更快的散热和更低的 DBC 热阻。

高侧和低侧欠压闭锁以及短路保护均由 Raon 自主研发的 HVIC 和 LVIC 控制。

Green power module GPM2, GPM3, GPM5

It features a robust transfer molding structure that achieves faster heat dissipation and lower thermal resistance with DBC. Both high-side and low-side under-voltage lockouts, as well as short-circuit protection, are controlled by Raon's self-developed HVIC and LVIC.

产品线 / Product line up:

-GPM2

Safe and Superior Heat Dissipation

650V 30/50A, 1200V 25/35/50A

-GPM3

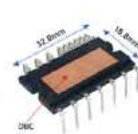
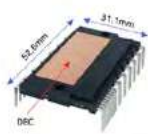
The Highest Efficiency

650V 20/30/40A

-GPM5

Most Compact and Precise

650V 15/20/30A



展位号 / Booth No: C61
丰鹏电子 (珠海) 有限公司
Raytrons Limited

RAYTRONS

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产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 医疗电子 Medical Electronics, 通信 Communications, 汽车工程 Automotive

公司简介 / Company Profile:

丰鹏电子 (Raytrons) 是一家拥有多年电子产品研发技术和制造经验的公司, 公司拥有专业和经验丰富的研发团队, 技术实力覆盖最先进的半导体芯片技术发展, 制程满足客户端应用的持续升级要求。

公司主营产品为第三代半导体的陶瓷基电路板 DBC, AMB, DPC, 功率芯片嵌入式 PCB 功率模块方案、单管水冷一体化设计方案, GaN 集成封装模块等。

公司始终坚持满足客户品质要求, 用多年 PCB 领域的丰富经验为基础, 准时交货和持续缩短生产周期, 通过持续改善提高综合竞争力, 提供物料组合的多样化, 从而使得客户可以选择匹配其现在和未来最佳产品要求的方案, 敏捷、灵活和回应迅速的服务, 以确保客户的满意!

Raytrons Limited is a Hong Kong-Chinese OEM & ODM capable company that specializes in solving thermal solutions through our innovative, patented substrate formulas. Our technical experience comes from our many years of R&D, and 30 years of experience in the PCB industry, while our operational know how originates from the many years experience as a supplier of multiple T1 automotive companies.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System

产品介绍 / Products Description:

公司主营产品为第三代半导体的陶瓷基电路板 DBC, AMB, DPC, 功率芯片嵌入式 PCB 功率模块方案、单管水冷一体化设计方案, GaN 集成封装模块等。



The company's main products include third-generation semiconductor ceramic based circuit boards DBC, AMB, DPC, power chip embedded PCB power module solutions, single tube water-cooled integrated design solutions, GaN integrated packaging modules, etc.

展位号 / Booth No: G23

罗德与施瓦茨 (中国) 科技有限公司

ROHDE & SCHWARZ

ROHDE & SCHWARZ
Make ideas real

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网址 / Web: <https://www.rohde-schwarz.com.cn/>

产品应用范围 / Scope of Applications:

工业电子 Industrial Electronics, 消费电子 Consumers Electronics, 医疗电子 Medical Electronics, 通信 Communications, 汽车工程 Automotive

公司简介 / Company Profile:

关于罗德与施瓦茨

罗德与施瓦茨业务涵盖测试测量、技术系统、网络与网络安全, 致力于打造一个更加安全、互联的世界。成立 90 年来, 罗德与施瓦茨作为全球科技集团, 通过发展尖端技术, 不断突破技术界限。公司领先的产品和解决方案赋能众多行业客户, 助其获得数字技术领导力。罗德与施瓦茨总部位于德国慕尼黑, 作为一家私有企业, 公司在全球范围内独立、长期、可持续地开展业务。

Rohde & Schwarz

Rohde & Schwarz is striving for a safer and connected world with its Test & Measurement, Technology Systems and Networks & Cybersecurity Divisions. For 90 years, the global technology group has pushed technical boundaries with developments in cutting-edge technologies. The company's leading-edge products and solutions empower industrial, regulatory and government customers to attain technological and digital sovereignty. The privately owned, Munich based company can act independently, long-term and sustainably. Rohde & Schwarz generated net revenue of EUR 2.78 billion in the 2022/2023 fiscal year (July to June). On June 30, 2023, Rohde & Schwarz had around 13,800 employees worldwide.

产品范围 / Topics:

测试和测量 Test & Measurement

产品介绍 / Products Description:

1、R&S*MXO 5 示波器: 新一代示波器, 以创新演进应对更多挑战

主要特点:

- (1) 带宽: 350 MHz 至 2 GHz (四通道); 100 MHz 至 2 GHz (八通道)
- (2) 全球首屈一指的波形捕获率超过 450 万波形 / 秒的示波器
- (3) 业内出众的系统架构: 18 位垂直分辨率 / 12 位 ADC
- (4) 业内出色的标配存储: 500 Mpts
- (5) 高达 45,000 FFT/s 的同步频谱采集率和多达 4 个频谱, 在业内名列前茅

2、R&S*MXO 5C 示波器: 设计紧凑的新一代示波器

主要特点:

- (1) 带宽: 350 MHz 至 2 GHz (四通道); 100 MHz 至 2 GHz (八通道)
- (2) 示波器高度为 2U, 非常适合机架应用
- (3) 集成式电子墨水显示屏显示仪器的 IP 地址和状态等关键信息, 保证快速进行设置
- (4) 性能规格与 MXO5 系列示波器一样优质:
 - 全球出色的波形捕获率: 450 万波形 / 秒
 - 业内出众的系统架构: 12 位 ADC
 - 业内出色的标配存储: 500 Mpoints
 - 业内出色的频谱采集速率为 45,000 FFT / 秒, 最多可采集 4 个频谱

3、R&S*MXO 4 示波器: 新一代示波器, 快速的洞察与分析。

主要特点:

- (1) 带宽: 200 MHz 至 1.5 GHz
- (2) 在全球示波器中率先实现超过 450 万波形 / 秒的波形捕获率
- (3) 业内出众的系统架构: 18 位垂直分辨率 / 12 位 ADC
- (4) 业内出色的标配存储: 400Mpoints
- (5) 45000 FFT/s 的频谱采集率, 在业内名列前茅



1、R&S®MXO 5 Oscilloscope: Next generation oscilloscope: evolved for more challenges

Key facts:

- (1) Bandwidth: 4 channel: 350 MHz - 2 GHz | 8 channel: 100 MHz - 2 GHz
- (2) World's fastest oscilloscope with > 4.5 million wfms/s update rate and spectrum with > 45k FFT/s
- (3) Industry-leading architecture: 18-bit vertical resolution/12-bit ADC and 10-bit ENOB
- (4) Zone trigger on analog, spectrum and math
- (5) Deepest in class standard memory: 500 Mpoints

2、R&S®MXO 5C Oscilloscope: Next generation oscilloscope in a compact form

Key facts:

- (1) Bandwidth: 4 channel: 350 MHz - 2 GHz | 8 channel: 100 MHz - 2 GHz
- (2) 2U height which makes it the ideal choice for rack applications
- (3) Integrated e-ink display with key information such as instrument IP and status for fast setup
- (4) Zone Trigger on analog, spectrum, and math
- (5) Same great specs as MXO5 Series oscilloscope:
 - World's fastest oscilloscope: 4.5 million waveforms/sec
 - Industry-leading system architecture: 12-bit ADC, 18 bit HD mode and 10-bit ENOB
 - Deepest in class standard memory: 500 Mpoints
 - Industry leading spectrum acquisition rate of 45,000 FFT/s and up to 4 spectra

3、R&S®MXO 4 Oscilloscope: Next generation oscilloscope for accelerated insight

Key facts:

- (1) Bandwidth: 200 MHz - 1.5 GHz
- (2) World's first oscilloscope with an update rate > 4.5 million waveforms per second
- (3) Industry-leading system architecture: 18-bit vertical resolution/12-bit ADC
- (4) Deepest in class standard memory: 400 Mpoints
- (5) Industry leading spectrum acquisition rate of 45,000 FFT/s

展位号 / Booth No: D14

罗姆半导体 (上海) 有限公司

ROHM Semiconductor (Shanghai) Co., Ltd



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网址 / Web: <https://www.rohm.com.cn/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 通信 Communications, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

罗姆 (ROHM) 是一家成立于 1958 年的半导体和电子元器件制造商。由起初的主要产品 - 电阻器的生产开始, 历经 60 余年的发展, 已成为世界知名的半导体厂商。罗姆的企业理念是: “我们始终将产品质量放在第一位。无论遇到多大的困难, 都将为国内外用户源源不断地提供大量优质产品, 并为文化的进步与提高作出贡献”。通过遍布全球的开发与销售网络, 为汽车和工业设备市场以及消费电子、通信等众多市场提供高品质和高可靠性的 IC、分立半导体和电子元器件产品。在罗姆自身擅长的电源领域和模拟领域, 罗姆的优势是提供包括 SiC 功率元器件及充分地发挥其性能的驱动 IC、以及晶体管、二极管、电阻器等外围元器件在内的系统整体的优化解决方案。如欲进一步了解详情, 请访问罗姆的官网: <https://www.rohm.com.cn>

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 传感器 Sensors, 伺服技术 / 执行器 Electrical Drives, 能源管理系统 Energy Management System

产品介绍 / Products Description:

ROHM 开发出新型二合一 SiC 封装模块“TRCDRIVE pack™”

- 小型封装内置第 4 代 SiC MOSFET
- 实现业界超高功率密度
- 助力 xEV 逆变器实现小型化
- 目前有 750V/1200V 共 12 款产品



罗姆 EcoSiC™ 第 4 代 SiC MOSFETs

- 低开关损耗
- 低导通电阻
- 为节约能源做出贡献
- 目前有 650V/750V/1200V/1700V 产品阵容



罗姆 EcoGaN™ 功率元器件

- 助力应用产品进一步节能和小型化
- 提供集 650V GaN HEMT 和栅极驱动用驱动器等于一体的 Power Stage IC
- 提供 GaN 用栅极驱动器, 更大程度地提高 GaN 器件的高速开关性能



※“EcoSiC™”、“EcoGaN™”、“TRCDRIVE pack™”是 ROHM Co., Ltd. 的商标或注册商标。

展位号 / Booth No: H03

沙特基础工业公司

SABIC



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No.,2550, Pudong New Area, Shanghai

邮箱 / E-mail: Fumio.Yu@sabic-hpp.com

网址 / Web: <https://www.sabic.com/en>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

沙特基础工业公司 (SABIC) 是世界知名的多元化化工企业, 总部位于沙特利雅得。公司旗下制造工厂遍布全球, 包括美洲、欧洲、中东和亚太在内多个国家和地区, 产品涵盖化学品、通用及高性能塑料和农业营养素。

在汽车、医疗、电子电气、包装、农业、消费品和建筑等关键终端应用市场, SABIC 长期致力于帮助客户发掘潜在机遇。

2023 年, SABIC 的持续经营业务净收入总额 (剔除非持续经营业务损益) 为 13 亿里亚尔 (合 3.5 亿美元), 全年销售总额达 1415 亿里亚尔 (合 377 亿美元), 总资产为 2944 亿里亚尔 (合 785 亿美元), 总产量达到 5350 万吨。

SABIC is a global diversified chemicals company, headquartered in Riyadh, Saudi Arabia. It manufactures on a global scale in the Americas, Europe, Middle East and Asia Pacific, making distinctly different kinds of products: chemicals, commodity and high performance plastics, and agri-nutrients.

SABIC supports its customers by identifying and developing opportunities in key end-use applications such as Automotive, Hygiene & Healthcare, Electrical & Electronics, Packaging, Agriculture, Consumer Products, and Building & Construction.

SABIC recorded a net income of SAR 1.3 billion (US\$ 0.35 billion) in 2023. Sales revenues for 2023 totaled SAR 141.5 billion (US\$ 37.7 billion). Total assets stood at SAR 294.4 billion (US\$ 78.5 billion) at the end of 2023. Production in 2023 stood at 53.5 million metric tons.

产品范围 / Topics:

被动元件 Passive Components

产品介绍 / Products Description:

助力电动汽车性能提升: SABIC ELCRES™ HTV150A 电容薄膜可用于电动汽车牵引逆变器模块的先进薄膜电容器。其通过助成碳化硅和氮化镓功率模块的导入, 助力电动汽车延长续航里程、加快充电速度。

业界首创: SABIC 和 Nichicon 日本尼吉康公司合作, 用 SABIC 的材料打造出一款突破性的薄膜电容器, 可以耐受 150°C 的高温 and 900-1000V 的高电压。

产品表现优异:

- 在 150°C 下经过 2000 小时以及在 130°C 下经过 3600 小时之后, 该电容薄膜仍能保持原有性能。
- 不仅能耐受高温和高电压, ELCRES HTV150A 薄膜还具备高电压击穿强度、良好的自愈性和较低的介电损耗。

SABIC's ELCRES HTV150A dielectric films can be used to produce advanced film capacitors for AC-DC traction inverter modules in electric vehicles to help extend range, accelerate charging speed and boost performance by enabling the adoption of silicon carbide and gallium nitride power modules.

Japan's Nichicon Corporation chose SABIC's material to build a breakthrough film capacitor that can withstand 150 degrees Celsius and 900 to 1000 volts. It's a first for the industry!

In fact, reliability life testing by SABIC's materials experts and Nichicon's engineers showed that the dielectric film maintained performance even after 2,000 hours at 150 degrees Celsius, and after 3,600 hours at 130 degrees Celsius.

Besides high heat and high voltage, ELCRES HTV150A films deliver high voltage breakdown strength, good self-healing and low dissipation losses.



展位号 / Booth No: F21

上海三下电子科技有限公司

Sansonic Electronic S&T (Shanghai) Co., Ltd



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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 电力供应 Power Supply, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 汽车工程 Automotive, 风能 Wind Energy

公司简介 / Company Profile:

三下电子, 于 2006 年在中国经济迅猛发展的大潮中崛起于国际化大都市上海, 历经十余年的风雨兼程汇高端资源优势于一身, 在电子元件产品的代理、销售、运营、服务及配套解决方案于一体的多元化服务领域, 树立起一道不可逾越的高新技术企业丰碑。

三下电子专业代理及销售各类高质量电子元器件, 提供各类特殊产品, 以及技术和装配支持。产品广泛应用于通讯, 仪表, 航空, 新能源, 交通, 以及其他高科技领域

Sansonic Electronics was founded in Shanghai in 2006 with the conception 'to be one of the best electronic components suppliers in China'

With more than 16 years rapid development, Sansonic has been a comprehensive high-tech company of electronic components.

Sansonic wins reputation by good service, fast reply as well as our honest operation.

Looking into the future, Sansonic will continue to offer high quality products and best service to the clients, and being one of the most reliable partners for Chinese clients.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 散热管理 Thermal Management, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System

产品介绍 / Products Description:

1.M57962AL-01R-02, 适用于大功率器件, 可根据其内部的自保护功能对其应用电路进行安全可靠设计。该模块采用双电源驱动, 有过流过压检测电路和保证 IGBT 可靠通断电路。总之, 能够安全地驱动开关、变频器中的大功率 IGBT。

2.VLA542-11R, 高速光耦输入输出隔离, 绝缘强度高 (2500VAC/min)。输入输出电平与 TTL 电平兼容, 适于单片机控制。内部有定时逻辑短路保护电路, 同事具有延时保护特性。剧透可靠通断措施 (采用双电源)。

3.VLA567-11R, 是一款两通道混合集成电路 IGBT 驱动器, 内置隔离型 DC/DC 转换器, 不需要再为 Vcc 和 Vee 设置外围电源; 双列直插设计可以有效降低振动对于 PCB 焊接的不良影响。驱动内置短路保护电路, 可以在检测到短路的情况下, 通过控制关断后沿斜率来实现对 IGBT 的软关断, 以减小对 IGBT 模块的冲击。



1.M57962AL-01R-02 is a hybrid integrated circuit designed for driving n-channel IGBT modules in any gate-amplifier application. This device operates as an isolation amplifier for these modules and provides the required electrical isolation between the input and output with an opto-coupler.

2.VLA542-11R is a hybrid integrated circuit designed for driving n-channel IGBT modules in any gate-amplifier application. This device operates as an isolation amplifier for these modules and provides the required electrical isolation between the input and output with an opto-coupler.

3.VLA567-11R is the hybrid integrated circuit of 2ch IGBT drivers. This device include the isolate type DC-DC converter for Gate drive. Therefore design of the gate power supply is not required.

展位号 / Booth No: B26

上海骄成超声波技术股份有限公司
SBT Ultrasonic Technology Co., Ltd.

SBT 骄成超声

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网址 / Web: https://www.sbt-sh.com/

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 医疗电子 Medical Electronics

公司简介 / Company Profile:

上海骄成超声波技术股份有限公司成立于 2007 年, 坐落于上海“大零号湾”, 背靠上海交通大学, 是专业提供超声波设备及应用解决方案的高科技实体企业, 骄成超声上交所科创板上市 (股票代码: 688392)。

骄成超声致力于成为超声技术及解决方案的领航者, 聚焦超声波技术的开发与应用, 打造了以超声波技术为核心的技术平台, 面向功率半导体行业客户提供超声波焊接、引线键合、Pin 针焊接、超声波扫描显微镜 (SAT)、超声波除尘和检测等解决方案。

Shanghai Jiaocheng Ultrasonic Technology Co., Ltd. was established in 2007 and is located in the "Big Zero Bay" of Shanghai, backed by Shanghai Jiao Tong University. It is a high-tech entity enterprise specializing in providing ultrasonic equipment and application solutions. (stock code: 688392).

Jiaocheng Ultrasonic is committed to becoming a leader in ultrasound technology and solutions, focusing on the development and application of ultrasound technology. We have created a technology platform with ultrasound technology as the core, providing solutions such as ultrasonic welding, wire bonding, pin welding, ultrasonic scanning microscope (SAT), ultrasonic dust removal, and testing for customers in the power semiconductor industry.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 智能运动 Intelligent Motion, 能源储存系统 Power Quality & Energy Storage, 测试和测量 Test & Measurement, 开发软件 Development Software

产品介绍 / Products Description:

- 1、超声波扫描显微镜 (离线式): 适用于 IGBT 模组分层、半导体芯片封装分层、金刚石测厚及内部缺陷、水冷散热板焊接缺陷等缺陷检测。
- 2、超声波铜 / 铝线键合机: 适用于 IGBT 模块、汽车电子、激光器、车用充电模块、电池等。
- 3、Pin 针超声焊机: 适用于一体针、针座、鱼眼针焊接, 可焊接在 DBC 板、模块。



1、C-SAM/SAT: Suitable for IGBT module layering, semiconductor chip packaging layering, diamond thickness measurement and internal defect detection, water-cooled heat dissipation plate welding defects and other defect detection.

2、Wire Bonding Machine (Copper/Aluminum): Suitable for IGBT modules, automotive electronics, lasers, automotive charging modules, batteries, etc.

3、Pin Ultrasonic Welding Machine: Suitable for integrated needles, needle sockets, fisheye needles, etc., and can be welded to DBC boards and modules.

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展位号 / Booth No: G38

顺德工业股份有限公司

SDI CORPORATION
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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

有感于未来自由化、国际化的世界潮流, 顺德于 1988 年起逐步展开与国际著名厂商合作, 转投资多家关系企业, 进行上、下游垂直整合及扩展国际营销, 以提升 SDI 产品在国际间的竞争力。未来, 顺德希望能更积极迈向跨国性企业、建立永续经营的基石, 将 SDI 品牌推上世界亮眼的舞台。

Realizing that growth towards internationalization was developing quickly, SDI took steps to cooperate with internationally renowned manufacturers in 1988 to set up affiliated companies. Additional capital was also spent to improve marketing and manufacturing processes. All of which have improved and strengthened SDI's ability to compete in the worldwide market successfully. Looking to the future SDI will continue to strive to become an international enterprise and make "SDI" a global brand.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 散热管理 Thermal Managemen, 传感器 Sensors, 伺服技术 / 执行器 Electrical Drives, 智能运动 Intelligent Motion, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage

产品介绍 / Products Description:

功率半导体导线架 (TO Series, 车用电子组件导线架)

功率模块 (散热基板, Pin 针, 针座)

光耦 8LED 导线架

Power & Discrete semiconductor Leadframe(TO Series, Automotive component Leadframe)

Power Module(Baseplate, Pinfin, Pressfit, Pin holder, Housing)

Opto & LED Leadframe

SDI CORPORATION

SiC & GaN & Automotive Application

TPAK
Material: SiC
Feature: High power, high efficiency
Application: EV charging station, DC/DC converter

DSC & SSC
Material: SiC
Feature: High power, high efficiency
Application: EV charging station, DC/DC converter

TO228 & TO263
Material: SiC
Feature: High power, high efficiency
Application: Power management

RIVETING
Material: SiC
Feature: High power, high efficiency
Application: EV charging station, DC/DC converter

DPAK
Material: SiC
Feature: High power, high efficiency
Application: EV charging station, DC/DC converter

SENSOR
Material: SiC
Feature: High power, high efficiency
Application: EV charging station, DC/DC converter

TO247
Material: SiC
Feature: High power, high efficiency
Application: EV charging station, DC/DC converter

TOLL & TOLL & TOLG
Material: SiC
Feature: High power, high efficiency
Application: EV charging station, DC/DC converter

ADVANCED DRIVER ASSISTANCE SYSTEM (ADAS)

POWERTRAIN CONTROL UNIT (PCU)

INTELLIGENT BATTERY SYSTEM (IBS)

SDI CORPORATION

POWER MODULE SOLUTION

SiC & GaN Leadframe & Power module Total Solution

Electric Vehicle

Charging Station

Grid-tied Energy

Baseplate
Material: SiC
Feature: High power, high efficiency
Application: EV charging station, DC/DC converter

Press Fit
Material: SiC
Feature: High power, high efficiency
Application: EV charging station, DC/DC converter

Pin Holder
Material: SiC
Feature: High power, high efficiency
Application: EV charging station, DC/DC converter

Pin Fin
Material: SiC
Feature: High power, high efficiency
Application: EV charging station, DC/DC converter

Terminal
Material: SiC
Feature: High power, high efficiency
Application: EV charging station, DC/DC converter

Housing
Material: SiC
Feature: High power, high efficiency
Application: EV charging station, DC/DC converter

GREEN ENERGY SOLUTION

展位号 / Booth No: H04

世强先进 (深圳) 科技股份有限公司

Sekorm Advanced Technology (Shenzhen) Co., Ltd.



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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

世强硬创平台是全球领先的一站式企业级研发服务和供应服务平台。平台拥有全球 1000 家顶级合作品牌, 涵盖集成电路、元件、材料、电气、电机、仪器等全品类, 目前已为中国 10 万家顶尖硬科技企业提供服务, 覆盖汽车电子、新能源及电力、自动驾驶、AI, IoT, 工业自动化, 智能家居, ICT, 智慧医疗, 装备自动化等行业。30 年技术代理商服务联合世强硬创平台, 成就原厂成长传奇: 如 Silicon Labs, Rogers, Melexis, Epson, 圣邦微, 地平线, Weidmueller, EPC 等

The SEKORM platform is a World-leading one-stop enterprise-level R&D and supply service platform. The platform has 1,000 top global partner brands worldwide, covering all categories such as integrated circuits, components, materials, electrical, motors, instruments, etc. It currently provides services to 100,000 top hard technology companies in China, covering automotive electronics, new energy and electricity, autonomous driving, AI, IoT, industrial automation, smart home, ICT, smart medical care, equipment automation and other industries. 30 years of technical agency services combined with the SEKORM Platform have made the original factory's growth legend: such as Silicon Labs, Rogers, Melexis, Epson, SG Micro, Horizon, Weidmueller, EPC, etc.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 散热管理 Thermal Management, 传感器 Sensors, 配置和子系统 Assemblies and Subsystems, 伺服技术 / 执行器 Electrical Drives, 智能运动 Intelligent Motion, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 测试和测量 Test & Measurement

产品介绍 / Products Description:

世强硬创平台携手 1000 家授权代理品牌原厂, 展示新能源及电力、传感技术、6G&AI& 服务器、电气自动化、汽车电子 &EV、IoT& 智能家居、工业自动化、可穿戴及医疗电子等热门领域的最新产品和方案。



The SEKORM platform joins hands with 1,000 authorized agent brand manufacturers to showcase the latest products and solutions in hot fields such as new energy and power, sensing technology, 6G & AI & server, electrical automation, automotive electronics & EV, IOT & smart home, industrial automation, wearable and medical electronics.

展位号 / Booth No: E16

赛米控丹佛斯电子 (珠海) 有限公司

Semikron Danfoss Electronics (Zhuhai) Co., Ltd



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网址 / Web: <https://www.semikron-danfoss.com/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电力供应 Power Supply, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

赛米控丹佛斯是全球电力电子领域的技术领导者。我们的产品包括半导体器件、功率模块、模组和系统。

我们的世界正处在电气化的大趋势中，赛米控丹佛斯的技术比以往任何时候都更加重要。我们致力于为汽车、工业和可再生能源等应用提供创新解决方案，帮助世界更高效、更可持续地利用能源，显著降低碳排放——这也是当今世界面临的最大挑战之一。

我们重视我们的员工。我们积极投资创新、技术、产能和服务，为客户创造价值，提供业内最佳的产品和服务，实现可持续发展的未来。

Semikron Danfoss is a global technology leader in power electronics. Our product offerings include semiconductor devices, power modules, stacks and systems.

In a world that is going electric, Semikron Danfoss technologies are more relevant than ever. With our innovative solutions for automotive, industrial and renewable applications we help the world utilize energy more efficiently and sustainably and thus to significantly reduce overall CO2 emissions – facing one of the biggest challenges today.

We take care of our employees and create value for our customers by investing significantly in innovation, technology, capacity, and service to deliver best-in-industry performance and for a sustainable future.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System

新品介绍:

赛米控丹佛斯推出 SEMITRANS 20 和 SKiiP 4 SiC, 配备多源采购的 2kV SiC 芯片。SEMITRANS 20 实现了灵活的转换器的开发, 而 SKiiP 4 SiC 则集成了功率模块、驱动器、电流传感器和散热器。无论您倾向于标准封装还是即用型 IPM 解决方案, 都会是您的明智之选。

覆盖您的方案需求

赛米控丹佛斯在电动汽车应用领域拥有 20 多年的经验和专业知识。随着赛米控和丹佛斯两家技术领先公司的合并, 我们可以利用技术组合的多重优势。通过两个功率模块平台 产品 eMPack 和 DCM, 我们可以为乘用车和商用车逆变器提供从 100kW 到 750kW 的高度可扩展解决方案



It's Your Choice

Semikron Danfoss introduces the SEMITRANS 20 and SKiiP 4 SiC, equipped with 2kV SiC chips from multiple sources. The SEMITRANS 20 enables flexible converter development, while the SKiiP 4 SiC integrates power modules, driver, current sensors, and heatsink.

Whether you prefer a standard package or a ready-to-use IPM solution, it's your choice.

You're Covered

Semikron Danfoss offers more than 20 years of experience and know-how in E-Mobility applications. With the merger of two technology leading companies we have the possibility to offer the multiple advantages of our combined technologies. With our two power module platforms, eMPack and DCM, we offer highly scalable solutions for passenger car and commercial vehicle inverter applications from 100kW to 750kW.

展位号 / Booth No: F12

陕西开尔文测控技术有限公司

Shaanxi KEW- Test Measurement and Control Technology Co.,Ltd.



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No. 404, 4th floor, building 1, Chang'an innovation and technology industrial park, Chang 'an District, Xi'an, Shaanxi province, China

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网址 / Web: <https://www.kewtest.cn>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 计算电子 Computing Electronics, 汽车工程 Automotive

公司简介 / Company Profile:

陕西开尔文测控技术有限公司成立于 2012 年, 注册资本 5000 万元, 是国内自主研发高端大功率新型半导体功率器件测试系统及检测技术服务的国家级高新技术企业。公司致力于新型器件 (SiC、GaN、石墨烯等) 材料分析、元器件检测、可靠性评测、系统功能验证等服务。

公司旗下实验室通过了 CNAS 和 CMA 检测能力双认证, 对外可承接检测服务。

Shaanxi Kelvin Measurement and Control Technology Co., Ltd. was established in 2012 with a registered capital of 50 million yuan.

National high-tech technology mainly engaged in the research and development of high-end high-power new semiconductor power device test system and detection technology services.

Art enterprise. The company is committed to the material analysis and component detection of new devices (SiC, GaN, graphene, etc.)

Rely on sex evaluation, system function verification and other services.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 电力供应 Power Supply, 测试和测量 Test & Measurement, 开发软件 Development Software, 信息与服务 Information & Services

产品介绍 / Products Description:

① 半导体 SiC 功率器件动态参数测试系统

适用于碳化硅 二极管、IGBT 模块、MOS 管等器件的时间参数测试。全智能高速测试系统, 可用于 1200V/1700V/3300V 的 IGBT 模块开通时间、关断时间、快恢复二极管反向恢复时间、反向电流及反向恢复电荷的测试。

① Dynamic parameter test system for semiconductor SiC power device

It is suitable for testing time parameters of Silicon Carbide Diode, IGBT module, Mos transistor and so on. The intelligent high-speed test system can be used to test the turn-on time, turn-off time, reverse recovery time of fast recovery diode, reverse current and reverse recovery charge of IGBT module of 1200V/1700V/3300V.



② 半导体 SiC 分立器件静态参数测试系统

适用于碳化硅二极管、IGBT 模块、MOS 管等器件的时间参数测试，可连接分选机。可测 ICES、BVCEs、IGESF、IGESR、VGETH、VGEON、VCESAT、ICON、VF、GFS、RCE 等全直流参数，阳极可扩展至 500A；1000A；1250A；1500A；2500A。

② Static parameter test system for semiconductor SiC discrete device

It is suitable for testing time parameters of Silicon Carbide Diode, IGBT module, Mos transistor, etc. . It can be connected to sorter. All DC parameters such as ICES, BVCEs, IGESF, IGESR, Vgeth, VGEON, VCESAT, ICON, VF, GFS, RCE can be measured, and the anode can be extended to 500A; 1000a; 1250a; 1500a; 2500a.



③ KEW-JCT 系列栅极电容 / 栅极电阻测试仪

本产品适用于 TO-247 封装的 SiC 和 Si 器件的栅极电容 / 栅极电阻测试。

③ KEW-JCT series gate capacitance/gate resistance tester

This product is suitable for testing gate capacitance/gate resistance of SiC and Si devices packaged in TO-247.



展位号 / Booth No: D56

山东佳脉气体工程有限公司

Shandong Gamma Gas Engineering Co. Ltd.



地址 / Add: 山东省济南市章丘区双山街道办事处城东工业园丰年大道南首

Fengnian Avenue, Zhangqiu, Jinan City, Shandong Province, China.

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邮箱 / E-mail: fengminglei@gammagas.com

网址 / Web: <https://www.gammagas.cn/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

山东佳脉气体工程成立于 2003 年, 是一家有 20 年历史的专业气体分离设备制造企业。公司总部坐落于济南市章丘区城东工业园, 注册资本 5000 万元, 占地约 40 亩, 厂房 15000 平方米, 办公 1500 平方米, 员工总数 78 人。近三年年产值平均增长率超过 20%, 2023 年年产值超过 1.5 亿元。

Shandong Gamma Gas Engineering was established in 2003 and is a professional gas separation equipment manufacturing company with a history of 20 years. Company headquarters is located in Chengdong Industrial Park, Zhangqiu District, Jinan City, with a registered capital of 50 million yuan, covering an area of about 40 mu, with factory building of 15,000 square meters and office area of 1,500 square meters, and a total of 78 employees. The average annual growth rate of output value in the past three years has exceeded 20%, and the output value in 2023 exceeded 150 million yuan.

产品范围 / Topics:

配置和子系统 Assemblies and Subsystems, 能源管理系统 Energy Management System

产品介绍 / Products Description:

佳脉变压吸附制氮设备—V 系列

高性能: 一步法制取 99.9995% 的高纯氮气、复合床层保证压力露点至 -50℃。

低运行成本: 180 秒长周期日本技术定制分子筛 (CMS), 结合佳脉自主创新 PSA 工艺, 节能高达 30%。

低维保成本: 180 秒长周期制氮, 分子筛与阀门工作次数比短周期分子筛减少了 65%, 10 年可不换筛。

操作简易: 高效空气压缩及净化单元、多塔 PSA 制氮单元、物联网及云监控系统一体化, 一键皆可操作。



展位号 / Booth No: H01

上海鹰峰电子科技股份有限公司

Shanghai Eagtop Electronic Technology Co.,Ltd.

EAGTOP
all for you, all for inverter

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网址 / Web: https://www.eagtop.com/

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

上海鹰峰电子科技股份有限公司 是以专业研发、生产电力电子无源器件为发展方向的高新技术企业, 是国内领先的无源器件解决方案供应商。主要产品有薄膜电容器, 电抗器, 叠层母排, 功率电阻器等, 公司先后通过了 ISO 9001: 2015 质量管理体系认证体系和 IATF 16949:2016 质量管理体系认证体系。

鹰峰电子不断致力于产品的开拓与创新, 为新能源汽车, 光伏, 风力发电, 工业传动等行业客户提供极具竞争力的无源器件综合解决方案和服务, 持续了解客户需求, 配合客户共同研发, 提升用户体验, 为用户创造最大价值。

EAGTOP is specialized in researching, developing and manufacturing Passive Power Electronics Devices. The main products include Film Capacitor, Reactor, Laminated BusBar, Resistor and so on. EAGTOP was authenticated by ISO 9001:2015 and IATF 16949:2016.

EAGTOP, constantly committed to pioneering and innovating products in its industry, provides highly competitive and comprehensive solutions to the electronic passive device application for worldwide customers in various fields involving, Wind & Solar power, Railway Transportation, Industrial Drive etc. In persistent pursuit of fully understanding customers' demands and putting effort into conducting collaborative R&D together with our customers, we strive to improve the user experience and create value for our customers to the largest extent.

产品范围 / Topics:

被动元件 Passive Components

产品介绍 / Products Description:

DC-Link 电容器:

在电机控制器中, 电池包的直流电作为输入电源, 需要通过直流母线与电机控制器连接, 该方式叫 DC-LINK 或者直流支撑, 其中的电容我们称之为母线电容或者支撑电容或者 DC-Link 电容。鹰峰 DC-link 电容以有机薄膜为绝缘介质, 在有机薄膜表面蒸镀而成的金属层作为电极, 两张膜卷绕而成的电容器, 具有容量稳定, 杂散电感小等优点。适合应用于使用条件苛刻、杂散电感低、要求长寿命的各种场合。

电抗器:

鹰峰电子主要有 INV 电感, Boost 电感, 输入电抗器, 输出电抗器, 直流电抗器, 正弦波滤波器、解谐电抗器、Dv/dt 滤波器、谐波滤波器、EMI 三相输入滤波器

叠层母排:

叠层母线用于实现电力电子产品中功率器件的连接, 通过正负极层叠平行分布的结构形式降低线路分布电感, 从而降低功率元件关断时的浪涌电压, 降低功率元件的耐压要求, 提高功率器件运行的可靠性和稳定性, 同时提高了电路的集成度, 便于维修维护。

嵌件注塑母排:

注塑母排是一种电能传输、配送的载体器件, 主要适用于结构紧促、需要移动的配送大电流产品中。

在新能源汽车行业中, 注塑母排以结构紧促、成本低、可批量生产的特点, 几乎所有的新能源汽车驱动器、电池包的配电均采用了注塑母排类产品。



展位号 / Booth No: F64

上海和伍精密仪器股份有限公司

Shanghai Hiwave Precision Instrument Co., Ltd.



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1st Floor, Jiaotong University Science and Technology Innovation Park, No. 322, Lane 953, Jianchuan Road, Shanghai

电话 / Tel: +86-21-54337983

邮箱 / E-mail: zhenzhen.wu@hiwave.com

网址 / Web: <https://www.ihisonic.com>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 航空航天 Aerospace, 医疗电子 Medical Electronics, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

上海和伍精密仪器股份有限公司 (简称: HIWAVE, 股票代码: 837263) 成立于 2012 年 8 月, 地处上海南浦科创中心核心区零号湾内, 毗邻上海交通大学闵行校区。公司对标国际先进技术, 致力于超声扫描显微镜 (SAM) 开发、制造、销售及售后服务, 为客户提供高端超声无损检测方案。

公司于 2016 年 5 月在新三板挂牌上市, 系国家高新技术企业、上海市“专精特新”企业, 已通过 ISO9001 质量管理体系认证, 产品通过了 CE、CSA 认证。

产品广泛应用于新能源、新材料、电子信息等制造领域, 有效满足液冷散热板、半导体分立器件、电子元器件、集成电路、IGBT 电力电子功率模块、PCB、陶瓷基板、先进封装、金刚石复合材料、陶瓷复合材料、锂电池、电器焊接件等产品的研发和质量控制需求。公司建立了覆盖全国的营销和服务网络, 为客户提供迅速的线性和远程服务。公司已经成为华为、比亚迪、美国西门子、施耐德、TDK、立讯、宝德等企业的供应商, 产品畅销国内外。

Shanghai Hiwave Precision Instrument Co., Ltd. (Short for: HIWAVE, stock code: 837263) was established in August 2012, located in the south of Shanghai Science and Innovation Center core area in the Zero Bay, adjacent to Shanghai Jiao Tong University Minhang campus. The company is committed to the development, manufacturing, sales and service of ultrasonic scanning microscope (SAM), and provides customers with high-end ultrasonic nondestructive testing solutions.

The company was listed on the New Third Board in May 2016. It is a national high-tech enterprise and a "specialized and special new" enterprise in Shanghai. It has passed the ISO9001 quality management system certification and its products have passed the CE and CSA certification.

Products are widely used in new energy, new materials, electronic information and other manufacturing fields, effectively meet the liquid cooling cooling plate, semiconductor discrete devices, electronic components, integrated circuits, IGBT power electronic power module, PCB, ceramic substrate, advanced packaging, diamond composite materials, ceramic composite materials, lithium batteries, electrical welding parts and other products research and development and quality control needs. The company has established a nationwide marketing and service network to provide customers with fast offline and remote services. The company has become the supplier of Huawei, BYD, Siemens, Schneider, TDK, Lichun, Baode and other enterprises, and its products sell well at home and abroad.

产品范围 / Topics:

测试和测量 Test & Measurement

产品介绍 / Products Description:

Hiwave 超声扫描显微镜 S550

应用领域: 半导体行业

S550 设备是半导体行业等产品缺陷检测的专用款, 主要利用高频超声波, 对半导体内部质量、焊接工艺进行检测, 能够检测出样品内部的气孔、裂纹、夹杂和分层等缺陷, 并以图形的方式直观展示。



Hiwave 超声扫描显微镜 S600

应用领域：晶圆行业

S600 这款设备用于晶圆行业键合晶圆的空洞、杂质和分层等缺陷的无损检测；配置 4 X- 高频水浸聚焦超声波探头，可实现微米级缺陷检测；超声换能器 & 收发测量装置；水循环 & 给排水模块；高精度 Robot 完成晶元搬运，大幅提升产能；



Hiwave 超声扫描显微镜 S800

应用领域：水冷行业

S800 这款设备是水冷散热器、IGBT 模组、金刚石复合材料等产品缺陷检测的专用款，主要利用高频超声波，对水冷板散热器内部质量、焊接工艺进行检测，能够检测出样品内部的气孔、裂纹、夹杂和分层等缺陷，并以图形的方式直观展示。



Hiwave Scanning Acoustic Microscope S550

Application: Semiconductor industry

The S550 device is a special model for the defect detection of products in the semiconductor industry. It mainly uses high-frequency ultrasonic waves to detect the internal quality and welding process of semiconductors, and can detect the defects such as pores, cracks, inclusions and delamination inside the sample, and display them visually in a graphical way.

Hiwave Scanning Acoustic Microscope S550

Application: Wafer industry

The S600 is used in the wafer industry for non-destructive testing of defects such as voids, impurities and delamination in bonded wafers. Equipped with 4 X- high frequency water immersion focusing ultrasonic probe, can achieve micron defect detection; Ultrasonic transducer & Transceiver measuring device; Water circulation & water supply and drainage module; High-precision Robot to complete the wafer handling, greatly improve production capacity;

Hiwave Scanning Acoustic Microscope S550

Application: water cooling industry

S800 This equipment is a water-cooled radiator, IGBT module, diamond composite materials and other products defect detection special model, mainly using high-frequency ultrasonic, water cooled radiator internal quality, welding process detection, can detect the sample inside the pores, cracks, inclusions and delamination defects, and in a graphical way visual display.

展位号 / Booth No: E36

上海华虹肇芯电子科技有限公司

Shanghai HuaHong ZealCore Electronics Technology Co.,Ltd



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电话 / Tel: +86-21-50751200

邮箱 / E-mail: zhohhj@hhzealcore.com

网址 / Web: https://hhzealcore.com

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电力供应 Power Supply, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

上海华虹肇芯电子科技有限公司隶属于华虹集团, 是华虹集团旗下的集成电路和功率半导体设计公司, 拥有一支由数名博士和高级工程师组成的专业技术团队和销售团队。

该公司利用华虹最新的 TrenchFS 技术, 不断创新, 以满足新能源领域高端电源器件的需求, 根据不同的应用场景, 为关键客户提供定制芯片, 为市场提供高质量、高性能的产品。

Shanghai HuaHong ZealCore Electronics Technology Co., Ltd., affiliated with HuaHong Group, is an expert in power and IC design. It has a professional team of technicians and salespeople, Comprising several highly qualified Ph.D. and senior engineers.

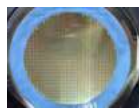
Leveraging HuaHong's latest TrenchFS technology, it keeps innovating to meet the needs of high-end power devices in the new energy sector. According to customer applications, it provides custom chips for key accounts and high-quality, high-performance products for the mass market.

产品范围 / Topics:

POWER WAFER

产品介绍 / Products Description:

1 HPI275N075FSLG1, 采用华虹肇芯第三代 Trench FS 技术, 应用领域为新能源乘用车, 此产品可应用于 HPD, DCM, TPAK 封装, 该芯片具备极低的 Vcesat, 更高的功率密度, 更高的可靠性。



2 HPI200Z095FSMG1, 采用华虹肇芯第三代 Trench FS 技术, 应用领域为光伏发电, 储能系统, 此产品可应用于 Easy3B 等封装形式, 该芯片具备极低的 Vcesat, 更高的功率密度, 更高的可靠性, 目前已在国内 TOP10 逆变器厂商验证。



3 HPI400N120FSUG1, 采用华虹肇芯第三代 Trench FS 技术, 集成 FRD 的 IGBT 芯片, 产品可应用于多种封装形式, 相对于分别独立的 IGBT 和 FRD 产品, RC-IGBT 具备面积优势, 该芯片具备小体积, 散热能力强, 高度集成化, 可集成温度传感器, 电流传感器。



1 HPI275N075FSLG1, using HH ZealCore's the third generation Trench FS technology, this chip is applied in New Energy Passenger Vehicles, the chip could be used in HPD, DCM, TPAK, the chip has very lower Vcesat, higher power density, higher reliability.

2 HPI200Z095FSMG1, using HH ZealCore's the third generation Trench FS technology, the chip could be used in Easy3B and the chip has lower Vcesat, higher power density, higher reliability Now, it has been verifying by TOP10 inverter manufacturers in China.

3 HPI275N120FSU1, using HH ZealCore's the third generation Trench FS technology, RC-IGBT which integrated FRD, can be used in a variety of package, compared with individual IGBT and FRD product, RC-IGBT has excellent area advantages, this chip has a small size, strong heat dissipation, highly integrated, can be integrated temperature sensor, current sensor.

展位号 / Booth No: F48
上海岩谷有限公司
SHANGHAI IWATANI CO.,LTD



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网址 / Web: http://www.sh-iwatani.com/

产品应用范围 / Scope of Applications:

自动化 Automation, 工业电子 Industrial Electronics, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

上海岩谷有限公司以工业气体为起点, 逐步将业务范围扩展到资源材料, 工业机械等领域。

我们在工业机械领域比如汽车行业, 电子零部件行业, 半导体行业等有广泛的设备销售业绩。

本次展览会上, 我们将展出白光共聚焦显微镜以及 3D 烧结设备等颇具特色的设备, 旨在为您提供各种日本高精尖的设备和技术方案。

Starting from the industrial gas business, Shanghai Iwatani Co., Ltd. has gradually expanded its business scope into resource materials, industrial machinery and other fields.

We have a wide range of equipment sales in industrial machinery such as automotive industry, electronic parts industry, semiconductor industry, etc.

At this exhibition, we will exhibit Lasertec confocal microscope and 3D sintering equipment and other unique equipments, in order to provide you with a variety of sophisticated equipments and technical solutions.

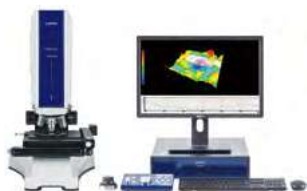
产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 散热管理 Thermal Management, 测试和测量 Test & Measurement

产品介绍 / Products Description:

1, 白光共聚焦显微镜 (本装置具备白光共聚焦、激光共聚焦、微分干涉观察、垂直白光干涉测试、相差干涉测试、反射分光膜厚测试 6 大功能模块, 可应对多样测试需求。)

2, 3D 烧结设备 (在 SIC 功率元器件的封装烧结工艺中, 通过特殊的弹性加压媒体, 高效高品质地实现立体加压烧结。)



1, OPTELICS HYBRID+ (The device is equipped with 6 functional modules, including white light confocal, laser confocal, differential interference observation, vertical white light interference test, phase difference interference test, and reflective spectrophotometric film thickness test, which can cope with a variety of testing needs)

2, 3D SINTER (In the packaging sintering process of SIC power components, the solid pressure sintering is realized with high efficiency and high quality by special elastic pressure media.)

展位号 / Booth No: B31

上海中浦电磁科技有限公司

Shanghai SEC Technology Co.,Ltd

SECTECH

地址 / Add: 上海市松江区沈砖公路 6000 号 A1

Building A1, No.6000, Shenzhuan Road, Songjiang District, Shanghai, China

电话 / Tel: 86-21-61920557

邮箱 / E-mail: jiling@sectech.com.cn

网址 / Web: https://www.sectech.com.cn

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电力供应 Power Supply

公司简介 / Company Profile:

上海中浦电磁科技有限公司致力于成为电磁钢带及其制品行业的引领者。公司研发和制造的磁芯和铁芯, 主要应用于变压器、电抗器及电流传感器, 涉及特高压输电、电动汽车、储能逆变、智能电网、特种电源等领域。公司产品有卷绕磁芯, 包括环形磁芯、C 型磁芯、D 型磁芯、异型磁芯等; 叠片铁芯, 直角片叠片铁芯; Unicore 铁芯。

Shanghai SEC Technology Co.,Ltd, is committed to becoming the leader of the magnetic silicon steel strip and its related products. The magnetic core and iron core developed and manufactured by SECTECH are mainly used in transformers, reactors and current sensors in the fields of UHV transmission, electric vehicles, energy storage inverter, smart grid, special power supply and so on. Our main products include wound core, toroidal core, C core, Dcore and special type core and so on; stackedcore, includes step-lap core, joint stacked core, and stacked lamination; Unicore.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 传感器 Sensors, 电力供应 Power Supply

产品介绍 / Products Description:

硅钢铁芯

取向硅钢铁芯

薄带硅钢铁芯

电流传感器磁芯

变压器 / 互感器 / 电抗器铁芯

Magnetic Cores

Silicon Steel Cores

Wound Cores

Current Sensor Cores

Transformer Cores



展位号 / Booth No: D50

上海世禹精密设备股份有限公司

Shanghai Techsense Co., Ltd



地址 / Add: 上海市松江区九亭镇金马路 76 号 1 栋

Building 1, No.76, Jinma Road, Jiuting Town, Songjiang District, SHxianghua.piao@techsense.cn

邮箱 / E-mail: xianghua.piao@techsense.cn

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 通信 Communications, 汽车工程 Automotive

公司简介 / Company Profile:

上海世禹精密设备股份有限公司是中国上海市的半导体制造设备领域的领先企业。我们专注于提供高效、精密的制造解决方案, 涵盖 KGD Handler, Die Bond 和自动化组线设备。我们的 KGD Handler 设备能够有效处理已知良品裸片 (KGD), 确保高质量的封装和测试。Die Bond 设备具备卓越的精度和可靠性, 适用于各种功率器件的封装需求。我们的自动化组线设备通过高度自动化的生产流程, 显著提升生产效率和产品一致性。我们通过全球销售和服务网络, 为客户提供定制化的解决方案。

Shanghai Techsense Co., Ltd. is a leading company in the field of semiconductor manufacturing equipment based in Shanghai, China. We specialize in providing efficient and precise manufacturing solutions, including KGD Handler, Die Bond, and automated assembly line equipment. Our KGD Handler equipment effectively processes known good dies (KGD), ensuring high-quality packaging and testing. The Die Bond equipment offers exceptional precision and reliability, suitable for various power device packaging needs. Our automated assembly line equipment significantly enhances production efficiency and product consistency through highly automated production processes. We offer customized solutions to our clients through our global sales and service network.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 测试和测量 Test & Measurement

产品介绍 / Products Description:

KGD Handler:

高质量处理: 我们的 KGD Handler 设备能够高效处理已知良品裸片 (KGD), 确保其在封装和测试过程中的高质量和一致性。

精准分选: 设备采用先进的检测和分选技术, 能够准确区分合格和不合格的芯片, 减少生产过程中的浪费。

高效生产: 通过自动化的处理流程, 大幅提升生产效率, 适用于大规模的芯片制造和封装。

Die Bond 设备:

卓越的精度: 我们的 Die Bond 设备具备极高的贴装精度, 确保芯片在封装过程中的正确位置 and 良好接触。

多种封装类型: 设备支持多种封装类型, 包括传统的线键合和更先进的 Flip Chip 封装, 适应不同的应用需求。

高可靠性: 设备设计以高可靠性为核心, 能够稳定运行, 减少停机时间, 提高生产的连续性。

自动化组线设备:

高度自动化: 我们的自动化组线设备通过高度自动化的生产流程, 显著提升生产效率和产品一致性。

灵活配置: 设备可以根据客户的不同需求进行灵活配置, 满足各种生产线的需求。

智能监控: 设备配备先进的监控系统, 能够实时监控生产状态, 及时发现和解决问题, 保证生产的顺利进行。



KGD Handler:

High-Quality Processing: Our KGD Handler equipment efficiently processes Known Good Dies (KGD), ensuring high quality and consistency during the packaging and testing processes.

Precision Sorting: The equipment utilizes advanced detection and sorting technology to accurately distinguish between qualified and unqualified chips, reducing waste in the production process.

Efficient Production: Through automated handling processes, production efficiency is significantly improved, making it suitable for large-scale chip manufacturing and packaging.

Die Bond Equipment:

Exceptional Precision: Our Die Bond equipment offers extremely high placement accuracy, ensuring the correct positioning and good contact of chips during the packaging process.

Various Packaging Types: The equipment supports multiple packaging types, including traditional wire bonding and more advanced Flip Chip packaging, meeting diverse application needs.

High Reliability: Designed with high reliability at its core, the equipment can operate stably, reducing downtime and increasing production continuity.

Automated Assembly Line Equipment:

High Automation: Our automated assembly line equipment features highly automated production processes, significantly enhancing production efficiency and product consistency.

Flexible Configuration: The equipment can be flexibly configured according to different customer needs, catering to various production line requirements.

Intelligent Monitoring: Equipped with advanced monitoring systems, the equipment can monitor production status in real-time, promptly identifying and resolving issues to ensure smooth production.

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展位号 / Booth No: F76**上海永铭电子股份有限公司****Shanghai Yongming Electronic Co., Ltd.**

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地址 / Add: 上海市奉贤区南桥镇杨王工业区光村路 258 号

网址 / Web: www.yimin.com**公司简介 / Company Profile:**

上海永铭电子股份有限公司成立于 2001 年，是一家专业从事各类电容器的新产品开发、高精度制造、应用端推广的高新技术企业，是上海市重点新产品企业、上海市高新技术企业、上海市品牌产品企业、AAA 信用等级企业，注册资本 3000 万元，占地面积 40000 平方米 (60 亩)，厂区办公楼实验楼宿舍楼配套设施完备。目前已经获得 ISO9001、ISO14001、ISO45001 以及 IATF16949（汽车行业的国际标准）和国军标体系等认证证书，产品符合 RoHS、REACH、AEC-Q200（被动元件汽车级质量认证）等标准。本公司主要产品为：铝电解电容器、薄膜电容器、钽电容器、陶瓷电容器、超级电容器等各类新技术电容器，是电动汽车、超级快充、5G 通讯、数据服务器、新能源及储能设备、智能电网、智能物联网、新型军工装备等新型终端必不可少的重要基础元器件。产品全球推广、全球营销。公司自成立以来，始终秉持“电容应用，有困难 • 找永铭”这一服务理念，坚持围绕客户需求开发创新产品，加大研究投入，助力行业进步。“让电荷没有难存的容器”是我们持续努力的目标。每天进步一点点是我们每天前进的动力；做客户尊重的产品、做社会尊敬的团队是我们存在的价值。



展位号 / Booth No: G43

深圳市聚峰锡制品有限公司

SHENZHEN JUFENG SOLDER CO LTD



地址 / Add: 广东省深圳市龙岗区坂田街道金鹏工业区 12 栋一楼

1st Floor, Building 12, Jinpeng Industrial Zone, Bantian Street, Longgang District, Shenzhen City, Guangdong Province

电话 / Tel: 0755-89501587

邮箱 / E-mail: paulinelee@jufengxi.com

网址 / Web: <https://www.jfsolder.com>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

深圳市聚峰锡制品有限公司成立于 2006 年 9 月, 作为国家高新技术企业、深圳市专精特新企业, 聚峰聚焦电子封装材料领域, 专注新型封装互连材料、焊接辅料、锡制品等的研发与生产。并在香港设立办事处, 在印度设立 2 个生产基地; 是一家集研发、生产、销售为一体的国际化综合性高新技术材料制造商、半导体封装材料方案提供商。

Shenzhen Jufeng Solder Co., Ltd. was established in September 2006. As a National High-tech and a specialized, unique, and innovative enterprise. Jufeng focuses on the R&D and production of new packaging interconnect materials, accessories, tin soldering products, etc. Jufeng also set up an office in Hong Kong and two production bases in India; it is an international comprehensive high-tech material manufacturer and a semiconductor packaging material solution supplier.

产品范围 / Topics:

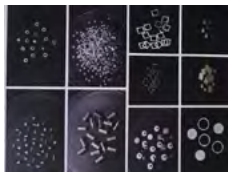
功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 传感器 Sensors, 伺服技术 / 执行器 Electrical Drives, 电力供应 Power Supply, 能源管理系统 Energy Management System, 开发软件 Development Software

产品介绍 / Products Description:

烧结银: 追求高性能、高可靠性、零排放等行业的首选互联材料, 主要特点: 实现其他互联材料无法兼顾的低温结合、高温服役。

预成型焊片: 可以通过回流焊或感应焊与设备直接进行焊接组装, 具有焊料消耗精准、助焊剂定量、可靠性能高。

铜核球: 为实现高机能, 高密度化, 以堆叠封装技术为代表的 3D 封装技术逐步发展, 同时, 为满足封装材料需求, 铜核球能更好的解决 PKG 在多次回流焊中因上级焊点熔融而造成焊点塌陷甚至短路的问题。



Sintered silver: the preferred interconnect material for industries that pursue high performance, high reliability, zero emissions, etc. Its main features are low-temperature bonding that cannot be achieved by other interconnect materials, and high-temperature service.

Pre formed solder pads: can be directly soldered and assembled with equipment through reflow soldering or induction soldering, with precise solder consumption, flux quantification, and high reliability.

Copper core ball: In order to achieve high functionality and high density, 3D packaging technology represented by stacked packaging technology is gradually developing. At the same time, to meet the demand for packaging materials, copper core ball can better solve the problem of solder joint collapse or even short circuit caused by the melting of upper solder joints in PKG during multiple reflow soldering.

展位号 / Booth No: E48

深圳市先进连接科技有限公司

Shenzhen Advanced Joining Technology Co., Ltd.



地址 / Add: 深圳市宝安区沙井街道后亭社区后亭茅洲山工业园工业大厦全至科技创新园科创大厦 20 层 F, Floor 20, Kechuang Building, Houting Maoshan Industrial Park, Shajing Street, Houting Community, Baoan District, Shenzhen, China.

电话 / Tel: +86-0755-23723565

邮箱 / E-mail: sales@ajmtech.cn

网址 / Web: <http://www.ajmtech.cn>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply, 汽车工程 Automotive, 风能 Wind Energy

公司简介 / Company Profile:

深圳市先进连接科技有限公司 (以下简称 AJM), 总部位于被誉为创新之都的深圳, 是国内领先的半导体设备与材料供应商。作为国家级高新技术企业、“专精特新”企业, AJM 拥有从研发、设计、组装到销售的本土化营运能力及售后服务能力。生产环节严格贯彻 ISO9001、ISO45001、ISO14001, IATF16949 质量管理体系。烧结设备已通过 CE 认证, 所生产烧结产品已通过 AQG324 标准测试。

AJM 自 2015 年成立起至今专注于烧结相关产品的工艺开发及生产销售, 具备车规产品量产供货经验。已服务国内主机厂、Tier1、Tier2, 凭借丰富的服务经验, 助力客户顺利实现产品量产。

AJM 还将通过自研创新打造行业内更先进、高可靠的烧结设备及工艺, 为客户提供更优质的半导体解决方案。

Shenzhen Advanced Joining Technology Co., Ltd (hereinafter referred to as AJM), headquartered in Shenzhen, known as the capital of innovation, is a leading supplier of semiconductor equipment and materials in China. As a national high-tech enterprise and a "specialized, sophisticated, distinctive, and innovative" enterprise, AJM has the ability to operate locally from R&D, design, assembly to sales and after-sales service. AJM has strictly implemented ISO9001, ISO45001, ISO14001 and IATF16949 quality management system in the production process. The sintering equipment has passed CE certification, and the sintered products produced have passed AQG324 standard test.

Since its establishment in 2015, AJM has been focusing on the process development, production and sales of sintering-related products, and has experience in mass production and supply of automotive products. AJM has served domestic OEMs, Tier 1 and Tier 2, and with rich service experience, and has helped customers successfully realise the mass production of their products.

AJM will also create more advanced and reliable sintering equipments and processes in the industry through self-research and innovation to provide customers with better semiconductor solutions.

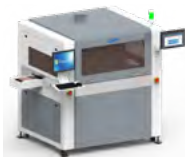
产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1. 中试型烧结设备

- ① 适用于定型产品的中试和批量生产
- ② 烧结冷却及运动过程中提供真空 / 氮气保护
- ③ 动态压头技术确保精准压力跟踪控制
- ④ 自动覆膜, 自动预热、烧结和冷却系统



2. 量产型烧结设备

- ① 适用于定型产品大批量生产
- ② 集成预热、烧结、冷却三模块
- ③ 更好适应同一衬板上不同高度差 (< 2mm)
- ④ 多配方存储, 自动覆膜, 自动预热烧结冷却



3. 烧结材料

银膏 & 银膜应用场景:

- ① 顶部粘接烧结
- ② 芯片粘接烧结
- ③ 封装体粘接烧结



1.AS Sintering Equipment-Pilot type

- ① For pilot and series production of confirmed products
- ② Vacuum/nitrogen protection throughout sintering cooling and movement
- ③ Dynamic head technology ensures accurate pressure tracking control
- ④ Automatic laminating, preheating, sintering and cooling system

2.AS Sintering Equipment-Production type

- ① Suitable for mass production of confirmed products
- ② Integrated preheating, sintering, cooling three modules
- ③ Adapt to different height differences on the same DBC (< 2mm)
- ④ Multi-formula storage, automatic laminated film, automatic preheating sintering cooling

3. Sintering Materials

Sintered paste & Sintered Application fields:

- ① Top bonding sintering
- ② Chip bonding sintering
- ③ Package bonding sintering

展位号 / Booth No: G36

深圳市艾明博电子科技有限公司

Shenzhen Ai Ming Bo Electronics Technology Co., Ltd



地址 / Add: 深圳市宝安区航城街道黄麻布工业区洲石公路 513 号

No.513,Zhoushi Road,Huangmabu,Hangcheng Street,Baoan District,Shenzhen,Guangdong,China

电话 / Tel: +86-755-27484153

邮箱 / E-mail: zxfeng@hotmail.com

网址 / Web: http://sz-amb.com

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

深圳市艾明博电子科技有限公司, 经过多年悉心研究, 申请了多项国家专利, 致力于 AMB(活性金属钎焊) 覆铜陶瓷基板研发制造。本公司所有原材料完全实现了国产替代, 以最优性价比热诚服务于广大 IGBT/SIC 大功率模块客户。

Shenzhen Aimingbo Electronic Technology Co. Ltd., after years of research, has applied for a number of national patents, commits itself to R & D and manufacturing of AMB (active metal brazing) on ceramics substrates. All the raw materials are manufactured from local. We sincerely serve all customers of IGBT / SIC power modules with the best cost-effectiveness and performance.

产品范围 / Topics:

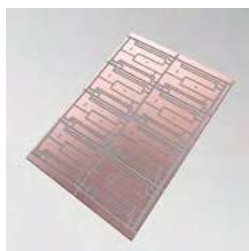
功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 散热管理 Thermal Management, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System

产品介绍 / Products Description:

1、AMB 氮化硅陶瓷覆铜板 具有极高的可靠性, 适用于轨道交通和航空航天行业;

2、AMB 氮化铝陶瓷覆铜板 具有极强的热导性, 适用于光伏逆变行业;

3、AMB 氧化铝陶瓷覆铜板 具有极好的性价比, 是 DBC 升级换代的优良替代品。



1, AMB substrates of silicon nitride ceramic have high reliability, suitable for rail transportation and aerospace industry.

2, AMB substrates of aluminum nitride ceramic have strong thermal conductivity, suitable for photovoltaic inverter industry.

3, AMB substrates of alumina ceramic have excellent cost performance, are the excellent upgraded substitute for DBC substrates.

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展位号 / Booth No: F58

深圳爱仕特科技有限公司

Shenzhen AST Technology Company
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产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

深圳爱仕特科技有限公司, 是一家专注于第三代半导体 SiC MOSFET 芯片研发及功率模块生产的国家高新技术企业及深圳市专精特新企业, 注册资金 6220 万, 已建成车规级 SiC 功率模块工厂, 先后通过了 IATF16949 汽车行业质量管理体系、ISO9001/45001/14001 三体系和 AEC-Q101 产品可靠性认证。目前公司产品涵盖: 650V-3300V/5A-150A 的 SiC MOSFET、高功率低损耗的 SiC 功率模块以及基于 SiC 功率器件的整机应用系统方案。

AST focusing on the third generation semiconductor SiC chip and SiC power devices, asserted as "NHTE" and "SZ Specialized Enterprise". AST has built a automotive SiC module manufacturing plant, passed the IATF16949 certification, ISO9001/45001/14001 certifications and AEC-Q101 certification. At present, the company's products cover: 650V-3300V/5A-150A SiC MOSFETs, high power and low losses SiC power modules and application systems based on AST SiC power devices.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

一、650~3300V 的碳化硅 MOSFET

产品特性:

- 全系列采用 6 英寸晶圆量产
- 最高耐压 3300V
- 最低内阻 12mΩ
- 高雪崩耐量, 100% UIS 测试
- 满足车规级要求: 按照 AEC-Q101 标准测试
- 主推封装形式: TO-247-3/TO-247-4/TO-263-7/TO-220F/TOLL/PDFN8*8/TDFN8*8/PDFN5*6/SOT227

二、650~1700V 的碳化硅功率模块

产品特性:

- 最高结温 175℃
- 正温度系数
- 氮化硅绝缘基板
- 直接水冷散热
- 集成负温度系数传感器
- 2.5kV 绝缘电压
- 主推封装形式: HPD/DCS12/MD3/MED/MEP/EP/ME3/ME2

① 650~3300V SiC MOSFET

Features:

- Full series of mass production uses 6-inch wafers
- Max voltage: 3300V
- Min internal resistance: 12mΩ
- High avalanche tolerance, 100% UIS tested
- Automotive qualified, AEC-Q101 standard tested
- Main packaging form: TO-247-3/TO-247-4/TO-263-7/TO-220F/TOLL/PDFN8*8/TDFN8*8/PDFN5*6/SOT227

- Max junction temperature: 175° C
- Positive temperature coefficient (PTC)
- Si3N4 insulating substrate
- Direct water-cooling
- Integrated negative temperature coefficient (NTC) sensor
- 2.5kV insulation voltage
- Main packaging form: HPD/DCS12/MD3/MED/MEP/EP/ME3/ME2



			
TO-247-3	TO-247-4	TO-263-7	TO-223F
电压/Voltage	650~1200V	650~1200V	650~1100V
电流/Current	5~100A	10~100A	5~100A
导热电阻/R _{DSJA}	12~100mΩ	32~160mΩ	30~100mΩ
			
TOLL	PDFNS-8	TOFN8-8	PDFNS-6
电压/Voltage	650~1200V	650~1200V	650V
电流/Current	10~15A	1~25A	1A
导热电阻/R _{DSJA}	12~45mΩ	30~50mΩ	32mΩ
			
SOT227	SOT227	SOT227	SOT227
电压/Voltage	650~1200V	650~1200V	650V
电流/Current	10~15A	1~25A	1A
导热电阻/R _{DSJA}	12~45mΩ	30~50mΩ	32mΩ

产品特性 / Features

- 全球国家4英寸晶圆厂
- 晶圆制程330nm
- 晶圆面积12.1cm
- 向台积电、12英寸晶圆厂
- 晶圆面积12.1cm, 制程330nm, 12英寸晶圆厂

产品目录 / PRODUCTS LIST

package	650V							1200V							1700V					3300V	
	12ML	15ML	18ML	60ML	100ML	120ML	130ML	16ML	20ML	45ML	50ML	80ML	160ML	25ML	72ML	150ML	10L	58ML	190ML		
TO-247-3																					
TO-247-4																					
TO-263-7																					
TO-18																					
PDFN8*8																					
PDFN6*6																					
PDFN6*6																					
SOT227																					
TO-220P																					



广合股份



			
电压 <i>Voltage</i>	450-1100V	450-1100V	450-1100V
电流 <i>Current</i>	400-1800A	400-1800A	300-700A
导通电阻 <i>Resist</i>	1-2-4mΩ	1-5-2mΩ	1-7-3mΩ
			
电压 <i>Voltage</i>	1200-1700V	1200V	1200-1700V
电流 <i>Current</i>	30-350A	80-200A	100-400A
导通电阻 <i>Resist</i>	1-3-8mΩ	8-10mΩ	4-15mΩ

产品特性:

- 庫房溫度175℃
- 正溫度表數
- 氧化超熱係數
- 溫度未平衡時
- 氧化超熱係數對等係數
- 2.5x精確度

产品目录

[illegible]

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展位号 / Booth No: F66**深圳市博敏电子有限公司****Shenzhen Bomin Electronics Co., LTD.****BOMIN** 深圳市博敏电子有限公司
SHENZHEN BOMIN ELECTRONICS CO., LTD.

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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

深圳市博敏电子有限公司坐落在中国南部深圳, 创建于 1994 年, 公司聚焦于陶瓷基板 (AMB、DPC)、印制电路 (PCB、IMS) 等产品, 为客户提供从研发、生产、到售后的一站式服务和解决方案。

深圳博敏以客户需求为导向, 全过程产品自主研发, 拥有多项国际专利和国内专利, 具备 IATF16949 认证、AS9100D 认证、ISO 系列认证。

深圳博敏在陶瓷金属化和表面处理等环节具备专业的工艺技术和生产能力, 生产过程中采用 ERP+MES 系统进行生产管理, 现代化的生产管理体系贯穿产品研发、生产、质检到出货的每一环节。在严格的全流程品质检验项目中, 陶瓷基板产品在出货前执行 100%SAT 检查 (50MHz, 100 μ m 探头) 以确保产品的空洞率控制在 0.5% 以内以及最大空洞直径不超过 0.5mm, 并且执行 200%AOI 检查, 以确保线路及图形的一致性。

深圳博敏秉承“致力于成为功率模块陶瓷载板的技术引领者”的企业使命, 通过三十年不懈的努力, 为客户提供专业、创新、高效的产品方案, 以优良的品质与专业的服务赢得客户信赖。

Shenzhen Bomin Electronics Co., Ltd. is located in Shenzhen, South China, founded in 1994, the company focuses on ceramic substrate (AMB, DPC), printed circuit (PCB, IMS) and other products, to provide customers with one-stop service and solutions from research and development, production, to after-sales.

Shenzhen Bomin is customer-oriented, the whole process of product independent research and development, with a number of international patents and domestic patents, with IATF16949 certification, AS9100D certification, ISO series certification.

Shenzhen Bomin focuses on the main process of ceramic metallization and surface treatment, and adopts ERP+MES system for production management in the production process. The modern production management system runs through every link of product development, production, quality inspection and shipment. In a rigorous whole-process quality inspection program, ceramic substrate products are subjected to 100%SAT inspection (50MHz, 100 μ m probe) before shipment to ensure that the voidage of the product is controlled within 0.5% and the maximum cavity diameter is controlled within 0.5mm, and 200%AOI inspection is performed to ensure line and pattern consistency.

Adhering to the enterprise mission of "Becoming the technology leader of the power module substrate", Shenzhen Bomin has been providing customers with professional, innovative and efficient product solutions through 30 years of unremitting efforts, and has won the trust of customers with excellent quality and professional service.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management

产品介绍 / Products Description:

AMB (Active Metal Brazing), 是一种陶瓷金属化工艺, 该工艺是在 DBC (Direct Bond Copper) 工艺基础上发展而来, 原理是使用活性金属钎料将铜箔钎焊在陶瓷基板两面, 形成铜-钎料-陶瓷-钎料-铜的结构电子材料, 让铜和陶瓷之间具有更高的结合强度, 比 DBC 更好的可靠性。

DPC (Direct Plating Copper) 是利用物理真空镀膜方式在陶瓷基板上溅射钛铜使表面金属化的工艺。覆铜陶瓷基板 DPC 工艺可以制备出具有高导热性、优异尺寸稳定性和可靠电性能的基板。这种基板常用于高功率电子器件、射频 (RF) 电路、微波器件、LED 照明等领域, 以满足高性能电子器件对导热和信号传输的要求。

IMS (Insulated Metal Substrate), 是一种在金属板上应用特殊的预浸材料制成的 PCB, 基于较薄的高导热绝缘有机陶瓷胶膜, 这种胶膜主要的成分是一种填硼材料, 其整体散热性能极佳, 对高电压具有良好的绝缘特性; IMS 的 CTE 和铜相近, 在环境可靠性测试中, 可靠性结果远远高于 DBC。



AMB (Active Metal Brazing) is a ceramic metallization process, which is developed on the basis of DBC (Direct Bond Copper) process, and the principle is to use active metal brazing filler metal to braze copper foil on both sides of the ceramic substrate. The electronic material that forms the copper-brake-ceramic-brake-copper structure allows for higher bond strength between copper and ceramics and better reliability than DBC.

DPC (Direct Plating Copper) is a process that uses PVD to sputter Titanium and copper on the ceramic substrate to metallize the surface. Copper-covered ceramic substrates with high thermal conductivity, excellent dimensional stability and reliable electrical properties can be prepared by DPC process. This substrate is often used in high-power electronic devices, radio frequency (RF) circuits, microwave devices, LED lighting and other fields to meet the requirements of high-performance electronic devices for thermal conductivity and signal transmission

IMS (Insulated Metal Substrate) is a kind of PCB made of a special prepreg material on the metal plate. It is based on a thin high thermal insulation organoceramic film, the main component of which is a Boron-filled material. The overall heat dissipation property is excellent, and the insulation properties against high voltage are good. The CTE of insulating layer is similar to the CTE of Cu, and in reliability tests, the results are much better than DBC.

展位号 / Booth No: D52

深圳市博士达焊锡制品有限公司

SHENZHEN BOSHIDA SOLDERING TIN INDUSTRIAL CO.,LTD



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A501, BLOCK ABCD, BUILDING 3, PHASE I, TIANAN YUNGU INDUSTRIAL PARK, GANGTOU

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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

博士达成立于2002年,是集高性能封装焊接材料研发、生产、销售、服务为一体的国家高新技术企业及深圳市专精特新企业,拥有“BSD”自主品牌,设立了研发总部、生产基地和四大服务网点的运营体系,打造了符合CNAS标准的实验室。公司凭着强大的国际化研发团队、先进的科研检测设备、全域的自研能力及对品质的执着追求,倍受业界推崇和客户信赖,成为全球众多知名企业的指定焊料供应商。

Founded in 2002, BSD is a national high-tech enterprise and a specialized and innovative enterprise in Shenzhen that integrates the research and development, production, sales, and service of high-performance solder materials for packaging. The company has developed its self-owned brand "BSD", accompanied by an operation system consisting of one research and development headquarter, one production base, and four major service networks, building a laboratory that meets CNAS standards. With a strong international R&D team, advanced scientific research and testing equipment, comprehensive self-developed capabilities, and a persistent pursuit of quality. BSD is highly respected in the industry and trusted by customers, becoming the designated solder supplier for many well-known enterprises worldwide.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 传感器 Sensors, 配置和子系统 Assemblies and Subsystems, 伺服技术 / 执行器 Electrical Drives, 智能运动 Intelligent Motion, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System

产品介绍 / Products Description:

1. 预成型焊片

博士达预成型焊片是电子钎料的高可靠性产品,可根据客户需求选择相应合金、定制形状及尺寸。采用德国进口精密设备生产,具有成分精准、氧含量低、氧化膜薄、洁净度高、整体空洞率<1%,单个空洞<0.2%,适用于新能源汽车、功率器件、微波器件、消费电子、光通讯等更高精度、高可靠性和高性能要求的焊接。

TLPS(瞬态液相扩散焊)焊片采用独特的多层金属复合结构,使用和常规软焊料同样的工艺及设备形成高熔点(>400摄氏度)的无铅焊点,焊接可靠性媲美烧结银。TLPS焊片具有低成本和耐高温特性,可以解决行业内高温互连材料的痛点,成为头部客户的最优选择。

2. 锡膏

博士达锡膏种类齐全,全方位满足先进半导体封装及SMT工艺需求。

半导体专用锡膏:合金熔点覆盖240度至320度区间、残留透明、高阻抗,适合清洗和免清洗工艺。

无铅零卤锡膏:超低空洞、超高阻抗,满足业内最严格的高低温冲击测试;适用精密细间距和高速印刷工艺。

中低温锡膏:残留无色透明、高阻抗、低空洞,同时适合于通孔焊接工艺。

激光焊专用锡膏:包括有多种合金、焊接温度和时间可调范围广,适合各种焊接设备和焊接工艺。

3. 锡丝

博士达无铅锡线,具有高绝缘阻抗、良好的焊接性、出色的湿润性、低飞溅和低残留等特点;无助焊剂的芯软焊丝耐热性好,可靠性高。



1.Solder Preform

The bsd solder preform is a highly reliable product for soft solder material, and can be customized with alloy composition, shapes, and sizes according to customer needs. Produced using precision equipment imported from Germany, it has precise composition, low oxygen content, thin oxide film, high cleanliness, an overall void rate less than 1%, and a single void rate less than 0.2%. It is suitable for soldering with higher precision, reliability, and performance requirements in electrical vehicles, power modules, microwave devices, consumer electronics, optical communications, etc

TLPS (Transient Liquid Phase Soldering) preforms adopt a unique multi-layer metal composite structure, and apply the same process and equipment as conventional soft solder to form lead-free solder joints with high melting points ($>400^{\circ}\text{C}$), with soldering reliability comparable to silver sintering. TLPS preforms have low cost and high temperature resistance characteristics, which can solve the pain points of high-temperature interconnect materials in the industry and become the best choice for industry leaders

2.Solder Paste

BSD provides a variety range of solder paste, fully meeting the needs of advanced semiconductor packaging and SMT processes.

Semiconductor specific solder paste: alloy melting point covering the range of 240 to 320°C , residual transparency, high impedance, suitable for clean and no-clean process.

Lead-free and halogen-free solder paste: ultra-low void rate, ultra-high impedance, meeting the strictest high and low temperature impact testing in the industry; Suitable for precision fine pitch and high-speed printing processes.

Low temperature and medium low temperature solder paste: residual colorless and transparent, high impedance, low void rate, and suitable for through-hole soldering process.

Laser soldering specific solder paste: including various alloys, with a wide range of adjustable soldering temperature and time, suitable for various soldering equipment and soldering processes.

3. Solder Wire

The lead-free solder wire of BSD has the characteristics of high insulation impedance, good solderability, excellent wetting, low splash, and low residue; The solid core flux free soft solder wires have good heat resistance and high reliability.

展位号 / Booth No: G53

深圳市迪福伦斯科技有限公司

ShenZhen Deffense Technology Co.,LTD



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产品应用范围 / Scope of Applications:

自动化 Automation, 工业电子 Industrial Electronics

公司简介 / Company Profile:

深圳市迪福伦斯科技有限公司通过多年的努力, 已成为国内有一定影响力的仪器仪表销售公司。多年来, 公司凭借良好的信誉和有力技术支持, 在激烈的市场竞争中不断的发展和完善, 成为众多中大型企业在工程测试、研发等工作中的核心合作伙伴, 客户的支持是我们最大的动力, 我们将为能成为客户首选供应商竭尽全力。迪福伦斯秉承“客户第一”、“服务第一”的经营宗旨, 以主动、创新、负责为理念, 追求尖端的技术与可靠的服务, 树立行业典范。我们的团队非常热心参与客户的每一个项目, 以专业、诚信、负责的态度与客户紧密合作。所售产品包括示波器、交流电源、电源回路分析仪、功率分析仪、频谱分析仪、电子负载、晶体管图示仪、EMI 接收机、数字源表、红外热成像仪、电源自动化测试系统等。创新灵活的管理理念让我们主动深入了解电子制造、新能源、汽车电子、无人机、无线通讯、科研院所等行业的测试要求, 而健全的产品线和技术能力使得我们能有可能会帮助客户选择适合的解决方案。

Over the years, the company has become a domestic influential instrumentation sales company, over the years, the company with a good reputation and strong technical support, in the fierce market competition continues to develop and improve, become the core partner of many large and medium-sized enterprises in engineering testing, research and development, customer support is our greatest motivation, we will do our best to become the preferred supplier of customers. Adhering to the business tenet of "customer first" and "service first", De Follens pursues cutting-edge technology and reliable service with the concept of initiative, innovation and responsibility, and sets an industry model. Our team is very enthusiastic to participate in every project of our clients, working closely with them with professionalism, integrity and responsibility. Products sold include oscilloscopes, AC power supplies, power loop analyzers, power analyzers, spectrum analyzers, electronic loads, transistor graphs, EMI receivers, digital source meters, infrared thermal imagers, power supply automated test systems, and more. The innovative and flexible management concept allows us to actively understand the testing requirements of electronic manufacturing, new energy, automotive electronics, drones, wireless communications, scientific research institutes and other industries, and the sound product line and technical capabilities give us the opportunity to help customers choose suitable solutions.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 智能运动 Intelligent Motion, 电力供应 Power Supply

产品介绍 / Products Description:

矢量网络分析仪 - Bode 100 使用多功能 Bode 100, 您可以在 1 Hz 至 50 MHz 的频率范围内获得电子电路和组件的精确图像。Bode 100 是最先进的矢量网络分析仪, 也可用作频率响应分析仪或增益 / 相位计, 以及强大的阻抗分析仪。



Vector Network Analyzer - Bode 100 With the multifunctional Bode 100 you get an exact picture of your electronic circuits and components in a frequency range from 1 Hz to 50 MHz. Bode 100 is a state of the art Vector Network Analyzer which also works as Frequency Response Analyzer or Gain/Phase Meter and as a powerful Impedance Analyzer.

展位号 / Booth No: H28

深圳市铭奋电子科技有限公司

Shenzhen Fairfield Electronic Technology Co.,Ltd.



地址 / Add: 广东省深圳市福田区车公庙天安数码时代大厦 A 座 2004 室

Room 2004, Cybertimes Tower A, Tianan Cyber Park, Chegongmiao, Futian District, Shenzhen, China

电话 / Tel: +86-755-83351658

邮箱 / E-mail: allen_zhu@fairfield.com.cn

网址 / Web: <https://www.fairfield.com.cn/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 通信 Communications, 汽车工程 Automotive

公司简介 / Company Profile:

深圳市铭奋电子科技有限公司是一家以销售进口半导体封装材料为主, 以提供工艺设计及解决方案、强大的技术支持为辅的高科技工贸公司。总部位于上海, 是上海铭奋电子科技有限公司下设分公司。

产品覆盖: 气密性封装、光通讯、LED 封装和照明、半导体封装、电子组装、工业工程六大行业。

典型产品: 导电银胶和纳米银胶、绝缘胶、导热灌封胶、结构胶、塑封料、金刚石铜等。

Shenzhen Fairfield Electronic Technology Co.,Ltd. is a high-tech material trading company engaged in sales of imported semiconductor packaging materials, providing process design and solutions, and strong technical support. Our headquarters is located in Shanghai. Shenzhen Fairfield Electronic Technology Co.,Ltd. is a branch of Shanghai Fairfield Electronic Technology Co.,Ltd..

We covers six major industries: hermetic packaging, optical communication, LED packaging and lighting, semiconductor packaging, electronic and assembly, industrial and engineering.

Typical products include silicon aluminum, graphite copper, conductive silver paste and nanoscale silver paste, insulating paste, thermally conductive potting & encapsulation, structural adhesive, etc.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management

产品介绍 / Products Description:

① 京瓷纳米烧结银浆 CT2700R7S

可替代高温铅焊料、AuSn 焊料;

适用于 SiC/GaN 功率器件 (TO 封装、功率模块)、表面发光二极管 (VCSEL) 和高功率 LEDs

- 低电阻
- 高导热率 (200W/mK)
- 利用独特的树脂分散体系实现低应力化、高耐热、高可靠性

② 洛德灌封胶 & 填缝剂

● 洛德灌封胶具有提升性能、保护电子元件, 且减少电子元件应力的优点。

代表产品有 SC-315、SC-320、SC-324 等等

● 洛德填缝剂具有低挥发、可抵御机械冲击的特点。

代表产品有 SC-1200、SC-1600、SC-3500 等等

① Kyocera Sintered Nano-Silver Paste CT2700R7S

Substitution for high-temperature lead solder and AuSn solder;

Applied to SiC/GaN power devices(TO packages, power modules),

Vertical-cavity surface-emitting lasers(VCSEL) and high-power LEDs.

- Low electrical resistance
- High thermal conductivity(200W/mK)
- Unique resin dispersion system for achieving high heat resistance and reliability with low stress

② Lord potting and encapsulation & gap filler

● Lord potting and encapsulation can improve performance, protect electronic and reduce component stress.

Representative products: SC-315、SC-320、SC-324 etc.

● Lord gap filler offers low-outgas options and remain tacky and soft to damp vibration.

Representative products: SC-1200、SC-1600、SC-3500 etc.

纳米烧结银浆 CT2700R7S

THE NEW VALUE FRONTIER
KYOCERA

满足半导体封装需求的高导热、导电芯片固晶材料

产品特点

- 通过纳米和微米级颗粒的金属颗粒达到高粘接强度
- 低电阻
- 高导热率 (200W/mK)
- 利用独特的树脂分散体系实现低应力化、高耐热、高可靠性
- (即使在高达250℃高温下也显示出高粘接可靠性)

粘接工艺

- 可以使用固有设备完成烧结
- 应用方法和程序跟银一样
- 可在200~250℃低温烧结
- 可在空气或氮气环境下固化



应用点

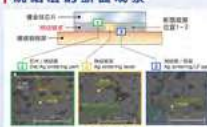


- 【替代焊料】
 - 替代高温钎焊料
 - 替代AuSn焊料
- 【替代】
 - SiC/GaN功率器件 (TO封装、功率模块)
 - 氮化镓LED (VCSEL)
 - 高功率LED

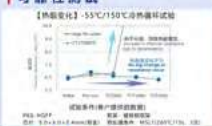
与传统银浆的比较



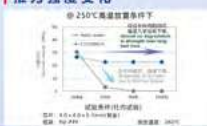
烧结层的断面观察



可靠性测试



推力强度变化



铭 奋
FAIRFIELD

代理商：上海铭奋电子科技有限公司
网址：www.fairfield.com.cn
销售热线：021-5448 0018 4001002590 13764173938

CoolTherm® 材料 功率器件应用

Parker LORD

灌封胶



灌封胶：
对整个模组进行灌封不仅可将热量从电池模组传导到散热器上，还可以利用高介电强度来最小化设计间隙。

- **提升性能**
我们的灌封胶具有高热导性和低粘度的特点，因而能够促进热传递达到最佳。
- **保护电子元件**
灌封胶具有防尘、防潮和降噪性能。
- **减少电子元件应力**
Parker LORD 灌封胶在固化时收缩率很小。

填缝剂



填缝剂：
通过使用导热填缝剂填充表面缺陷，获得最佳的电池性能，以满足电动车的应用。它们在原位固化成凝胶，可以缓解由温度差异和弯曲引起的应力。

- **低挥发**
我们为敏感的电子应用提供低挥发的解决方案。可挥发的硅氧烷含量可以控制在 PPM 级别。
- **抵御机械冲击**
我们的填缝剂能持久保持粘性和柔软，起到减震的作用。

产品	电子元件材料	热导率 (W/mK)	粘度 (cP@25°C)	密度 (g/cm³)
CoolTherm SC 301	密封胶	8.7	4,000	1.5
CoolTherm SC 307	密封胶	1.0	1,000	1.7
CoolTherm SC 311	密封胶	1.5	4,000	2.6
CoolTherm SC 303(M)	密封胶	2.1	4,000	2.8
CoolTherm SC 327	密封胶	9.2	20,000	3.1
CoolTherm SC 334	密封胶	4.0	30,000	3.3
CoolTherm SC 328	密封胶	15-42	25,000	3.2
CoolTherm LR 389	密封胶	9.7	14,000	3.5

产品	电子元件材料	热导率 (W/mK)	粘度 (cP@25°C)	密度 (g/cm³)
CoolTherm SC 1200	密封胶	2.0	82	2.9
CoolTherm SC 1000(S)	密封胶	5.0	75	3.4
CoolTherm SC 1000	密封胶	1.5	40	3.9
CoolTherm SC 1600	密封胶	3.7	89	3.9
CoolTherm SC 2000 P0	密封胶	2.0	65	2.6
CoolTherm LR 4000	密封胶	2.0	193	3.6
CoolTherm LR 2000 P2	密封胶	2.2	672	2.6

- 双组分
- 室温或加热固化
- 电绝缘
- 1:1 混合比

- 双组分
- 低挥发
- 室温或加热固化
- 电绝缘
- 1:1 混合比



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FAIRFIELD

代理商：上海铭奋电子科技有限公司
网址：www.fairfield.com.cn
销售热线：021-5448 0018 4001002590 13764173938

展位号 / Booth No: G60

深圳市创兴恒技术有限公司

Shenzhen Forenext Technology Co.,Ltd



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Room 1911, Floor 19, Block 1, Wanting Building, Xixiang Sub-district, Baoan District, Shenzhen, China.

电话 / Tel: 0755-23012596

邮箱 / E-mail: Sean.Deng@ForeNext.com

网址 / Web: <https://www.forenext.com/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 电机工程 Electrical Engineering, 通信 Communications

公司简介 / Company Profile:

深圳市创兴恒技术有限公司, 2017 年 3 月成立于中国创新之都 - 深圳, 中文简称创兴恒, 英文简称 Forenext. 创兴恒提供专业的测试测量产品和系统集成方案, 携全球技术服务于亚洲市场。

创兴恒总部位于深圳, 旗下有全资香港公司 ForenextTechnology Limited, 在上海、广州、东莞、珠海、惠州、苏州、成都、重庆、武汉和厦门设有办事处, 为中国和亚洲客户提供最优质的销售及技术服务。

Shenzhen Forenext Technology Co.,Ltd, .was founded in Shenzhen, the capital of innovation in China, in March 2017. It is referred to as Chuangxingheng in Chinese and Forenext in English. We provides professional test and measurement products and system integration solutions, and serves the Asian market with global technology.

Headquartered in Shenzhen, we has a wholly-owned Hong Kong company ForenextTechnology Limited, with offices in Shanghai, Guangzhou, Dongguan, Zhuhai, Huizhou, Suzhou, Chengdu, Chongqing, Wuhan and Xiamen, providing the best quality sales and technical services to customers in China and Asia.

产品范围 / Topics:

测试和测量 Test & Measurement

产品介绍 / Products Description:

创兴恒的产品为电源, 负载和示波器, 主要应用于航空航天、卫星通信、通信及铁路通信、汽车电子、消费类电子、家用电器、科研机构等领域的研发、测试与生产。



Our products are power, loads and oscilloscopes, mainly used in the research and development, testing, and production of aerospace, satellite communication, communication and railway communication, automotive electronics, consumer electronics, household appliances, scientific research institutions, and other fields.

展位号 / Booth No: F36

深圳市华科智源科技有限公司

Shenzhen HUSTEC Technology Co Ltd

HUSTEC
华科智源

地址 / Add: 深圳市宝安区鹤州恒丰工业城 C4 栋 816

816, Building C4, Hengfeng Industrial City, Hezhou, Bao'an District, Shenzhen

电话 / Tel: +86-0755-23226816

邮箱 / E-mail: chensl@hustec.cn

网址 / Web: https://www.igbts.com.cn

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

深圳市华科智源科技有限公司, 是一家专业从事功率半导体测试系统自主研发制造与综合测试分析服务的高新技术企业, 坐落于改革开放之都 - 中国深圳, 核心业务为半导体功率器件智能检测准备研制生产, 公司产品主要涉及功率器件参数测试仪, 动态参数测试仪, 雪崩测试仪, IGBT 静态参数测试仪, 功率循环, 雪崩及浪涌测试设备, 产品以高度集成化、智能化、高速、超宽测试范围等竞争优势, 将广泛应用于 IDM 厂商、器件设计、制造、封装厂商及高校研究所等, 客户行业涉及轨道交通, 地铁, 电驱动, 新能源汽车, 风力发电, 变频器, 家电等领域;

Shenzhen HUSTEC Technology Co., Ltd. is a high-tech enterprise specializing in the independent research and development, manufacturing, and comprehensive testing and analysis services of power semiconductor testing systems. It is located in the capital of reform and opening up - Shenzhen, China. Its core business is the development and production of intelligent testing equipment for semiconductor power devices. The company's products mainly involve power device parameter testers, dynamic parameter testers, avalanche testers, IGBT static parameter testers, power cycle, avalanche, and surge testing equipment. With competitive advantages such as high integration, intelligence, high-speed, and ultra wide testing range, the products will be widely used in IDM manufacturers, device design, manufacturing, packaging manufacturers, and university research institutes. The customer industries include rail transit, subway, electric drive, and new energy vehicles. Wind power generation, frequency converters, household appliances and other fields;

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 测试和测量 Test & Measurement

产品介绍 / Products Description:

功率器件静态参数测试仪 HUSTEC-1600A-MT

测试范围: $\pm 5000V, \pm 1600A$, 测试 IGBT, SIC 单管及模块等功率器件静态参数

浪涌电流测试仪

10us 方波浪涌, 浪涌电流 3000A, 上升时间 1us 以内

1~10ms 可调正弦半波, 浪涌电流 1200A

结电容测试仪

测试器件 CISS, COSS, CRSS, RG 等参数, 1Mhz 频率, 电压 $\pm 1500V$



Power Device Static Parameter Tester HUSTEC-1600A-MT

Test range: $\pm 5000V, \pm 1600A$, testing static parameters of power devices such as IGBT, SIC single tube, and modules

Surge current tester

10us square wave surge, surge current 3000A, rise time within 1us

1-10ms adjustable sine half wave, surge current 1200A

Junction capacitance tester

Test device parameters such as CISS, COSS, CRSS, RG, etc., 1Mhz frequency, voltage $\pm 1500V$

展位号 / Booth No: G61
深圳市金鹏跃科技有限公司
Shenzhen Jinpengyue Technology Co., Ltd.



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电话 / Tel: +86-0755-13714269151
邮箱 / E-mail: szjinpeng2006@163.com
网址 / Web: <https://www.dgdingtan.com>

产品应用范围 / Scope of Applications:

工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 航空航天 Aerospace, 照明 Lighting, 汽车工程 Automotive, 风能 Wind Energy

公司简介 / Company Profile:

本公司是一家专业研发、制作加工、检测新型高温抗氧化烧结石墨为主的企业。

应用领域: 半导体封装领域石墨, 设计治具 (解决生产诸多问题), 石墨多种涂层选择汽车领域烧结石墨热压领域石墨 5G 基站冷媒式散热片领域石墨治具高温炉等高温领域石墨制品

在 1300 度左右石墨涂层我们有独家优势!

Our company is a professional enterprise specializing in the research and development, production, processing, and testing of new high-temperature antioxidant stone burning ink.

Application areas: Graphite in semiconductor packaging field, design fixtures (to solve many production problems), various coating options for graphite, automotive field, sintered graphite hot pressing field, graphite 5G base station refrigerant heat sink field, graphite fixtures, high-temperature furnaces and other high-temperature fields, graphite products

We have an exclusive advantage in graphite coating at around 1300 degrees!

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management

产品介绍 / Products Description:

半导体封装领域石墨, 设计治具 (解决生产诸多问题), 石墨多种涂层选择汽车领域烧结石墨
5G 基站冷媒式散热片领域



Graphite in the field of semiconductor packaging, design fixtures (to solve many production problems), and various coating options for graphite

Sintered graphite in the automotive industry

5G base station refrigerant heat sink field

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展位号 / Booth No: C40
深圳力钛科技有限公司
Shenzhen Letak Technology Co., Ltd
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地址 / Add: 深圳市南山区西丽街道松坪山社区高新北二道 16 号清溢光电大楼 521
521, Qingyi Optoelectronics Building, No. 16 Gaoxin North Second Road, Songpingshan Community,
Xili Street, Nanshan District, Shenzhen
电话 / Tel: 0755-86677058
邮箱 / E-mail: raozhen@letak.com.cn
网址 / Web: <https://www.letak.com.cn>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电机工程 Electrical Engineering, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

深圳力钛科技有限公司 (Shenzhen Letak Technology Co., Ltd) 成立于 2014 年, 是一家集研发、生产和销售为一体的高新技术企业。力钛科技通过与美国 Teledyne LeCroy 等多个厂家的紧密合作, 共同开发了针对全球市场应用的产品, 专注于功率半导体开发和应用, 并推出了静态参数测试系统、功率半导体动态参数自动化系统、半导体可靠性试验系统等半导体测试仪器。

Shenzhen Letak Technology Co., Ltd. was established in 2014 and is a high-tech enterprise that integrates research and development, production, and sales. Through close cooperation with multiple manufacturers such as Teledyne LeCroy in the United States, LitiTech has jointly developed products for global market applications, focusing on the development and application of power semiconductors. It has also launched semiconductor testing instruments such as static parameter testing systems, power semiconductor dynamic parameter automation systems, and semiconductor reliability testing systems.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 测试和测量 Test & Measurement, 开发软件 Development Software

产品介绍 / Products Description:

1. LET-2000D 半导体动态参数测试系统, 是力钛科技公司结合 Lecroy 的产品特点和优势, 开发出的满足 IEC60747-8/9、JESD24 标准的半导体动态参数分析系统。旨在帮助工程师解决器件验证、器件参数评估、驱动设计、PCB 设计等需要半导体动态参数的场合。



2. LET-5000 半导体静态参数测试系统, 是一款测量与分析功率半导体器件静态参数的专用仪器, 为所有类型的功率半导体器件提供静态参数测量解决方案。LET-5000 半导体参数测试系统能在 2200V (最高 8000V) 和 1000A (最高 6000A) 的条件下实现精确测量、分析功率半导体器件的静态参数。



1. The LET-2000D Semiconductor Dynamic Parameter Testing System is a semiconductor dynamic parameter analysis system developed by Letak Company based on Lecroy's product characteristics and advantages, which meets the IEC60747-8/9 and JESD24 standards. Intended to assist engineers in solving situations that require dynamic semiconductor parameters such as device validation, device parameter evaluation, driver design, and PCB design.

2. The LET-5000 Semiconductor Static Parameter Testing System is a specialized instrument for measuring and analyzing the static parameters of power semiconductor devices, providing static parameter measurement solutions for all types of power semiconductor devices. The LET-5000 semiconductor parameter testing system can accurately measure and analyze the static parameters of power semiconductor devices under conditions of 2200V (up to 8000V) and 1000A (up to 6000A).

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展位号 / Booth No: F68

深圳麦科信科技有限公司

Shenzhen Micsig Technology Co., Ltd.
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Micsig 麦科信

地址 / Add: 广东省深圳市宝安区西乡街道南昌社区航城大道华丰国际机器人产业园 A 栋一层

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电话 / Tel: +86-755-88600880

邮箱 / E-mail: sales@micsig.com

网址 / Web: <https://www.micsig.com.cn>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

深圳麦科信科技有限公司是一家行业技术领先的信号测试测量设备研发制造商和方案提供商, 国家级高新技术企业, 专精特新企业。

我们致力于信号测试测量领域前沿技术的研究和开发, 尤其在示波器及周边产品领域我们一直走在创新的前沿。成立至今, 公司已拥有数量众多的技术专利和软件著作权。

我们每一项创新只为突破产品的技术边界, 为行业发展趋势探索新的可能。

我们缔造了业界第一台全触控平板示波器, 其流畅的性能和极致的使用体验轰动了整个业界。

我们开创性推出基于安卓定制的 SigtestUI™ 测试仪器专业系统, 是业内唯一专为测试仪器打造的测试平台, 让专业的仪器变得更轻薄、更稳定, 更智能、更流畅。

我们 SigOFIT™ 专有技术衍生出的光隔离探头和高带宽高压差分探头, 填补国内空白并领先同行, 给信号测试测量领域带来质的跨越, 也让第三代功率半导体的应用测试不再困难。

主营产品有示波器系列: 高分辨率示波器, 平板示波器, 汽车诊断示波器, 分体式示波器, 示波器探头系列: 光隔离探头, 高压差分探头, 柔性电流探头(罗氏线圈), 高频交直流电流探头, 低频交直流电流探头等。

Shenzhen Micsig Technology Co., Ltd. is an industry-leading manufacturer and solution provider of signal test and measurement equipment, honored by government authorities as national High-tech and "SRFO" (Specialized, Refined, Featured and Original) enterprise.

Ever since foundation in 2012, we've committed to the R&D of cutting-edge technologies in the field of oscilloscopes and peripheral products, have always been at the forefront of innovation and owned lots of technical patents and software copyrights.

Each of our innovations aims to break through the technical boundaries and explore new possibilities for industry development trends.

We created world-first full-touch tablet oscilloscope, smooth performance and ultimate user experience shocked the entire industry.

We launched the pioneering SigtestUI™, the only testing platform in the industry specifically designed for test and measurement instruments, making professional instruments lighter, smarter, and more stable.

We independently developed the SigOFIT™ technology, released industry-leading optical-fiber isolated probe and high-bandwidth high-voltage differential probe, which brings a qualitative leap to the industry, making 3rd-Gen power semiconductors test no longer difficult.

Our main products include a range of oscilloscopes: high-resolution oscilloscopes, Tablet oscilloscopes, automotive diagnostic oscilloscopes, android(USB) oscilloscopes, and a series of oscilloscope probes such as optical isolation probes, high-voltage differential probes, flexible current probes (Rogowski coils), high-frequency AC/DC current probes, and low-frequency AC/DC current probes.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 传感器 Sensors, 测试和测量 Test & Measurement

产品介绍 / Products Description:

SigOFIT 光隔离探头 MOIP 系列, 基于独家 SigOFIT™ 技术的光隔离探头, 拥有极高共模抑制比和隔离电压, 在其带宽范围内洞见信号全部真相, 是判定其他电压探头所测信号真实性的终极裁判。探头采用先进激光供电技术, 完美解决隔离供电问题。

带宽: 100MHz-1GHz; 共模电压: 85kVpk; 精度: 1%; 共模抑制比高达 180dB。

高压差分探头 DP 系列带宽范围从 100MHz 到 500MHz, 差分电压测试高达 7000Vpk。基于光隔离探头引领技术, DP 系列具有超低底噪, 优秀幅频特性和业界领先共模抑制比。

高分辨率示波器 MHO3 系列最大 500MHz 带宽、3GSa/s 实时采样率、4 个模拟通道、360Mpts 存储深度、12 位垂直分辨率; 3.58cm 超薄设计, 支持悬挂, 大幅节省宝贵桌面空间; 14 英寸触控屏, 1920*1200 分辨率, 超清波形显示, 拥有无与伦比操作体验。

平板示波器 ETO/TO/STO 系列可选带宽 100MHz-500MHz, 可选 1-3GSa/s 采样率, 70-360Mpts 存储深度, 8~14 英寸触控屏, 支持多种解码和 SCPI 和 APP 远程控制, 内置电池, 高端专业便携。

高分辨率示波器 MHO3 系列
带宽: 最高 500MHz; 实时采样率: 3GSa/s; 4 个模拟通道; 360Mpts 存储深度; 12 位垂直分辨率; 3.58cm 超薄设计; 支持悬挂; 大幅节省宝贵桌面空间; 14 英寸触控屏, 1920*1200 分辨率, 超清波形显示, 拥有无与伦比操作体验。

平板示波器 MDO 系列
带宽: 100MHz-500MHz; 实时采样率: 1GSa/s; 4 个模拟通道; 360Mpts 存储深度; 12 位垂直分辨率; 3.58cm 超薄设计; 支持悬挂; 大幅节省宝贵桌面空间; 14 英寸触控屏, 1920*1200 分辨率, 超清波形显示, 拥有无与伦比操作体验。

平板示波器 ETO 系列
带宽: 100MHz-500MHz; 实时采样率: 1GSa/s; 4 个模拟通道; 360Mpts 存储深度; 12 位垂直分辨率; 3.58cm 超薄设计; 支持悬挂; 大幅节省宝贵桌面空间; 14 英寸触控屏, 1920*1200 分辨率, 超清波形显示, 拥有无与伦比操作体验。

平板示波器 TO 系列
带宽: 100MHz-500MHz; 实时采样率: 1GSa/s; 4 个模拟通道; 360Mpts 存储深度; 12 位垂直分辨率; 3.58cm 超薄设计; 支持悬挂; 大幅节省宝贵桌面空间; 14 英寸触控屏, 1920*1200 分辨率, 超清波形显示, 拥有无与伦比操作体验。

平板示波器 STO 系列
带宽: 100MHz-500MHz; 实时采样率: 1GSa/s; 4 个模拟通道; 360Mpts 存储深度; 12 位垂直分辨率; 3.58cm 超薄设计; 支持悬挂; 大幅节省宝贵桌面空间; 14 英寸触控屏, 1920*1200 分辨率, 超清波形显示, 拥有无与伦比操作体验。

汽车诊断示波器 ATO 系列
带宽: 100MHz-500MHz; 实时采样率: 1GSa/s; 4 个模拟通道; 360Mpts 存储深度; 12 位垂直分辨率; 3.58cm 超薄设计; 支持悬挂; 大幅节省宝贵桌面空间; 14 英寸触控屏, 1920*1200 分辨率, 超清波形显示, 拥有无与伦比操作体验。

汽车诊断示波器 SATO 系列
带宽: 100MHz-500MHz; 实时采样率: 1GSa/s; 4 个模拟通道; 360Mpts 存储深度; 12 位垂直分辨率; 3.58cm 超薄设计; 支持悬挂; 大幅节省宝贵桌面空间; 14 英寸触控屏, 1920*1200 分辨率, 超清波形显示, 拥有无与伦比操作体验。

分体式示波器
带宽: 100MHz-500MHz; 实时采样率: 1GSa/s; 4 个模拟通道; 360Mpts 存储深度; 12 位垂直分辨率; 3.58cm 超薄设计; 支持悬挂; 大幅节省宝贵桌面空间; 14 英寸触控屏, 1920*1200 分辨率, 超清波形显示, 拥有无与伦比操作体验。

SigOFIT 光隔离探头 (激光供电 MOIP 系列)
带宽: 100MHz-1GHz; 共模电压: 85kVpk; 精度: 1%; 共模抑制比: 180dB。

SigOFIT 光隔离探头 (电池供电 CIP B 系列)
带宽: 100MHz-1GHz; 共模电压: 85kVpk; 精度: 1%; 共模抑制比: 180dB。

高压差分探头 DP 系列
带宽: 100MHz-500MHz; 差分电压: 7000Vpk; 精度: 1%; 共模抑制比: 180dB。

柔性电流探头 ICP 系列
带宽: 100MHz-500MHz; 电流: 10A; 精度: 1%; 共模抑制比: 180dB。

高频交流电流探头 CP 系列
带宽: 100MHz-500MHz; 电流: 10A; 精度: 1%; 共模抑制比: 180dB。

低频交流电流探头 CP2100 系列
带宽: 100MHz-500MHz; 电流: 10A; 精度: 1%; 共模抑制比: 180dB。

交流电流探头
带宽: 100MHz-500MHz; 电流: 10A; 精度: 1%; 共模抑制比: 180dB。

The SigOFIT Optical Isolation Probe MOIP Series, based on the exclusive SigOFIT™ technology, features an extremely high common-mode rejection ratio and isolation voltage, revealing the complete truth of the signal within its bandwidth range, making it the ultimate arbiter in determining the authenticity of signals measured by other voltage probes. The probe utilizes advanced laser power supply technology, perfectly solving the problem of isolated power supply.

Bandwidth: 100MHz-1GHz; Common-mode Voltage: 85kVpk; Accuracy: 1%; Common-mode Rejection Ratio up to 180dB.

The High Voltage Differential Probe DP Series has a bandwidth range from 100MHz to 500MHz, with differential voltage testing up to 7000Vpk. Based on the leading technology of the optical isolation probe, the DP Series features ultra-low noise floor, excellent amplitude-frequency characteristics, and an industry-leading common-mode rejection ratio.

The High-Resolution Oscilloscope MHO3 Series offers a maximum bandwidth of 500MHz, a real-time sampling rate of 3GSa/s, 4 analog channels, a storage depth of 360Mpts, and a 12-bit vertical resolution; with a 3.58cm ultra-thin design that supports suspension, significantly saving valuable desktop space; a 14-inch touch screen with a resolution of 1920*1200, providing an ultra-clear waveform display and an unparalleled operational experience.

The Tablet Oscilloscope ETO/TO/STO Series offers optional bandwidths from 100MHz to 500MHz, optional sampling rates of 1-3GSa/s, storage depths from 70-360Mpts, touch screens from 8 to 14 inches, support for various decoding and SCPI, and APP remote control, with a built-in battery, making it a high-end, professional, and portable device.

展位号 / Booth No: E46

深圳市锐博自动化设备有限公司

Shenzhen REB Automation Co., Ltd.



地址 / Add: 深圳市宝安区石岩街道塘头社区塘头南岗第三工业园 11 栋三层 (C 区)

Shenzhen Bao'an Shiyang Town Tanyou Community Tanyou South Gang Third Industrial Park, 11th Floor (C District)

电话 / Tel: 0755-86936501

邮箱 / E-mail: scb-hck@szreb.com

网址 / Web: <http://www.szreb.com>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 电力供应 Power Supply, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 汽车工程 Automotive

公司简介 / Company Profile:

深圳市锐博自动化设备有限公司是一家从事半导体封装领域设备研发、生产、销售于一体的高新技术企业, 公司有 8000 平米的厂房及 100 人的生产团队, 1000 平米标准装配车间, 来料检验室, 标准件仓库, 设备精调车间, 设备展示厅, 大理石校准台, 同时配套有 3D 高精度测量设备, 2.5 次元测量设备、微米级激光干涉仪、高精度自动影像测量仪等设备来支持公司的基础技术开发

Shenzhen Ruibo Automation Equipment Co., Ltd. is a high-tech enterprise engaged in semiconductor packaging equipment research and development, production and sales in one, the company has 8000 square meters of plant and 100 people production team, 1000 square meters of standard assembly workshop, inspection room, standard parts warehouse, equipment fine adjustment workshop, equipment exhibition hall, Marble calibration table, while supporting 3D high-precision measuring equipment, 2.5 dimensional measuring equipment, micron laser interferometer, high-precision automatic image measuring equipment to support the company's basic technology development

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 传感器 Sensors, 开发软件 Development Software, 信息与服务 Information & Services

产品介绍 / Products Description:

PIN 针超声波焊接机、端子超声波焊接机



PIN ultrasonic welding machine, terminal ultrasonic welding machine

展位号 / Booth No: H25

深圳市瑞芯辉科技有限公司

SHENZHEN RUI XIN HUI TECHNOLOGY CO.,LTD



地址 / Add: 深圳市光明新区马田街道新庄社区新围第四工业区鑫博盛科技园 B 栋 2 楼

Floor 2, Building B, Xinbosheng Science Park, Xinwei Fourth Industrial Zone, Xinzhuang Community,
Matian Street, Guangming New District, Shenzhen

电话 / Tel: 18826579556

邮箱 / E-mail: guang.chen@ruixinhui.com.cn

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 电力供应 Power Supply, 电机工程 Electrical Engineering

公司简介 / Company Profile:

国内一流的芯片功能测试治夹具研发, 制造, 解决方案的提供商

The domestic first-class chip function test fixture research and development, manufacturing, solution provider

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 散热管理 Thermal Managemen, 传感器 Sensors, 能源储存系统 Power Quality & Energy Storage, 测试和测量 Test & Measurement

产品介绍 / Products Description:

SOT,SOP,TSSOP,DFN,QFN,BGA, 功率器件, 充电桩模块



SOT, SOP, TSSOP, DFN, the QFN, BGA, power device, charging pile module

展位号 / Booth No: A14

深圳市顺昱自动化设备有限公司

SHENZHEN SHUNYU AUTOMATIZATION EQUIPMENT CO.,LT



地址 / Add: 深圳市南山区西丽松白路 1026 号南岗第二工业园 1 栋 5 楼

Nanshan district, shenzhen city xili street loose white road 1 5 floor of nangang second industrial

邮箱 / E-mail: chuangwx@163.com

产品应用范围 / Scope of Applications:

自动化 Automation, 工业电子 Industrial Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 通信 Communications

公司简介 / Company Profile:

深圳市顺昱自动化设备有限公司成立于 2005 年。“创唯星”是顺昱公司的品牌。是深圳认定的一家高新技术企业民营企业, 主要研发生产自动超声波粗铝丝压焊机、铝带键合机、超声波金球焊机、超声波铝丝压焊机、锂电池封装设备。公司是深圳市认定的高新技术企业、深圳民营科技企业、深圳市 LED 产业联合会理事单位, 荣获了广东省名优产品荣誉证书。是深圳市半导体照明产业发展促进会会员单位。公司注册资金 500 万元, 现有办公和生产场地总面积 1300 多平方米, 拥有一支高素质 20 多年经验团队, 其中本科及大专以上学历员工占比达 90%。

自创立以来, 我们顺昱始终坚持着一个战略目标, 那就是“追求客户利益最大化、追求优质满意的服务”。为了实现这个战略目标, 我们倡导“以卓越的品质、价值和服务满足客户要求; 成为员工引以为荣的企业; 每位员工是负责的、受尊重的”企业价值观。而“为客户提供超越价格的产品和服务”就是我们的服务宗旨。

Shenzhen SHUNYU Automation Equipment Co., Ltd. was established in 2005. “Chuangwei Star” is Shunyu Company's brand. Shenzhen identified as a high-tech private enterprises, R & D and production of automatic ultrasonic thick aluminum wire pressure welder, aluminum tape bonding machine, ultrasonic gold wire welding machine, ultrasonic aluminum wire pressure welder semiconductor, lithium battery packaging equipment. The company is recognized by Shenzhen high-tech Enterprises, Shenzhen Private Technology Enterprises, the board of directors of Shenzhen LED Industry Federation, it is a member of the Shenzhen light-emitting diode industry development and promotion association. The company registered capital of 500 million yuan, the existing office and production area of more than 1300 square meters, with a high-quality team of more than 20 years of experience, including undergraduate and college degree staff accounted for 90%. Since its inception, We Shunyu always adhere to a strategic goal, that is, “The pursuit of customer benefit maximization, the pursuit of quality satisfaction service.”. In order to achieve this strategic goal, we advocate the corporate values of “Meeting customer requirements with excellent quality, value and service; being a proud company; and being responsible and respected by all employees”. And “To provide customers beyond the price of products and services” is our purpose of service.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 传感器 Sensors

产品介绍 / Products Description:

自动超声粗铝丝压焊机、亚微米半自动倒装共晶贴片机、多功能力学测试机



Automatic ultrasonic thick aluminum wire welding machine, sub-micron semi-automatic flip-chip eutectic machine, multi-function mechanical testing machine

展位号 / Booth No: C30

深圳芯源新材料有限公司

SHENZHEN XINYUAN NEW MATERIALS CO., LTD.



地址 / Add: 深圳市宝安区新安街道兴东社区德至高科技园 11 栋

Building 11, Dezhigao Science and Technology Park, Yangtian Road, Xin'an Subdistrict, Bao'an District, Shenzhen

电话 / Tel: +86-0755-23573440

邮箱 / E-mail: linjie@xinyuanmat.com

网址 / Web: <http://www.xinyuanmat.cn/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 医疗电子 Medical Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

深圳芯源新材料有限公司是一家以高导热封装互连材料为核心的科技企业。公司专注于以纳米金属产品为代表的半导体用散热封装材料的研发生产、销售和技术服务。

公司材料研发部门由十多名博士和硕士以及多位实验员组成, 成功研制车规级烧结银产品、通讯级烧结银产品、光电封装导热银胶、集成电路用热界面材料”等系列产品。适用于功率半导体封装、射频半导体封装、光电半导体封装、集成电路封装、新能源汽车、射频通讯、航空航天、教育及科研等行业领域。

Shenzhen Xinyuan New Materials Co., Ltd. is a technology enterprise which offers high thermal conductivity electronic packaging materials. The company focuses on the R&D, production, sales and technical services of semiconductor packaging materials represented by nano-metal products, providing high heat dissipation and reliable solutions for power semiconductor packaging and advanced integrated circuit packaging.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management

产品介绍 / Products Description:

1、无压银胶 (PF-02A795A)

这是一款可以实现低温、无压力互连的高导热银胶, 固化温度最低可至 200 °C, 相较传统焊接和粘合材料, 在金、银表面上具有稳定的附着力, 点胶效果出众、工艺窗口宽, 具有优良的导热能力, 该款烧结银胶适用于 GaN、GaAs 射频芯片的封装。



2、有压银膏 (PA-100A03A)

这是一款可以实现低温芯片级互连的银膏, 与传统焊料相比, 导热率提升 5 倍, 使用寿命延长 20 倍以上, 烧结温度最低可至 230 °C, 该产品采用印刷工艺, 适用于各类尺寸的芯片与多种基板之间的连接, 并在封装应用中确保更高的热导率以及电导率。



3、烧结铜膏 (PA-700C01)

这是一款创新开发的有压烧结铜膏材料, 可以在芯片和基板间形成高导热及高可靠性的连接层, 兼容烧结银的生产工艺流程与设备, 相较于银膏具有优良的机械性能与成本优势, 是大功率模块封装的理想解决方案。



1、Silver Adhesive (PF-02A795A)

A pressureless-sintering type conductive adhesive with high thermal conductivity, can be cured at 200 °C on the gold/silver interface, which exhibits high bonding force. Outstanding continuous operation performance, wide process window, excellent thermal conductivity and reliability, suitable for small-size chip packaging.

2、Silver Paste (PA-100A03A)

A chip-level pressure-assisted type silver paste, can be used for low-temperature interconnection, which exhibits 5x thermal conductivity and 20x service life than traditional solders. The sintering temperature is 230 °C. The product is applied between power chip and substrate, ensuring heat dissipation and reliability.

3、Copper Paste (PA-700C01)

A state of art pressure-assisted type copper paste, can be used for highly thermal conductive and reliable interconnection between chip and substrate. It is compatible with sintered silver production process and equipment. Excellent mechanical properties and cost advantage make it an ideal solution for high power module packaging.

展位号 / Booth No: E19

深圳市愿力创科技有限公司

SHENZHEN YUANLICHUANG TECHNOLOGY CO.,LTD.



地址 / Add: 广东省深圳市龙岗区宝龙街道宝龙社区宝龙六路创维群欣科技园 1 号厂房 502

Building 502, No. 1, Chuangwei Qunxin Science and Technology Park, Baolong Sixth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen City, Guangdong Province

电话 / Tel: 0755-28511408

邮箱 / E-mail: mkt@ylckj.com

网址 / Web: <https://www.ylckj.com>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 光伏 Solar Energy, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

深圳市愿力创科技有限公司成立于 2018 年, 是一家专注于车规级高可靠性模块 (SI/SIC) 应用测试设备研发, 生产和销售的高新技术企业, 专精特新中小企业; 获得了多项发明专利、实用新型专利、多项软件著作权, 并已通过了 ISO9001 质量管理体系和 IATF16949 汽车行业质量标准体系。

研发团队拥有 15 年以上的新能源汽车、电力电子、电控领域的应用测试开发经验, 是功率半导体测试领域唯一具有新能源汽车应用背景的团队。

国内首家开创全新车规级高可靠性模块的应用测试方案, 最大程度拦截模块早期的质量问题。首家推出市场的 AC 无功测试系统, 目前出货工位已达 160+ 以上, 连续四年市场占有率第一。行业头部 TOP20 客户入驻率 90%, 市场占有率 95%。已和国内众多头部功率半导体企业建立了长期的合作关系。AC 无功测试系统在功率半导体测试领域深耕研发了 5 年, 先后经历了 4 个版本迭代, 技术优化升级 1000 多项, 涵盖了六大技术领域, 在市面上已得到了众多客户的认可。

Founded in 2018, Shenzhen Yuanlichuang Technology Co., Ltd. is a national high-tech enterprise focusing on the research and development, production and sales of vehicle-grade high-reliability module (SI/SIC) application test equipment. It has obtained a number of invention patents, utility model patents, and a number of software works. It has passed the ISO9001 quality management system and IATF16949 automotive industry quality standard system.

The R&D team has more than 15 years of experience in application testing and development in the field of power electronics and electronic control of new energy vehicles. It is the only team with a new energy vehicle application background in the field of power semiconductor testing.

It is the first in China to create an application test scheme for a new vehicle-grade high-reliability module to intercept the early quality problems of the module to the greatest extent. The first AC reactive power test system launched on the market has reached more than 160 in the current shipment station, ranking first in the market for four consecutive years. The industry's head TOP20 customer occupancy rate is 90%, and the market customer proportion is 95%. It has established a long-term cooperative relationship with many domestic head power semiconductor enterprises. The AC reactive power test system has been deeply researched and developed in the field of power semiconductor testing for 5 years. It has experienced four version iterations and more than 1,000 technical optimizations and upgrades, covering six major technical fields, and has been recognized by many customers on the market.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 开发软件 Development Software, 信息与服务 Information & Services

产品介绍 / Products Description:

AC 无功测试系统

针对于电动车、光伏、等高可靠性功率半导体应用场景的测试, 除动静态测试以外的全新测试方法。通过出货 100% 检验能大大提高功率半导体器件的出厂合格率。

AC 无功测试系统-RP9060

特点:

- 实验室验证
- 汽车工况模拟
- 摸底极限验证
- 加快模块迭代验证
- 结温测试
- 兼容硅、碳化硅
- 电机控制器参数开放设置
- 工况自定义
- 支持 2 工位扩展组合



AC 无功测试系统 -RP9080

特点:

- 针对车规模块高可靠性模块的应用级别筛选测试
- 模拟堵转、爬坡、红绿灯启停等工况
- 兼容 30+ 款模块封装
- 测试时间工况 6min 可满足年产 30 万只模块的生产需求
- 占地面积约 4.5m²
- 支持多个工位扩展组合
- 支持 NTC/PTC/FRD 温度采集
- 支持 SECS/GEM、MES、EAP 系统对接

对拖测试系统

基于自主研发的电机控制器为核心控制单元，针对功率半导体模块配合实际电机负载测试，测试项目覆盖功能、性能、可靠性、极限、堵转、短路、出流能力及长期工况老化，测试效果等同于客户实际应用。

对拖测试系统 -DT9080

- 实验室摸底极限验证
- 加快模块性能迭代验证
- 800V 碳化硅平台
- 兼容 40+ 款模块封装
- 电机控制器参数开放设置
- 黑盒简易操作
- 模拟爬坡、红绿灯启停、加减速、堵转模拟等
- 可扩展效率测试、结温测试

AC reactive power testing system

A new testing method for high reliability power semiconductor applications such as electric vehicles, photovoltaics, etc., in addition to dynamic and static testing. The 100% inspection during shipment can greatly improve the factory qualification rate of power semiconductor devices.

AC reactive power testing system RP9060

Features:

- Laboratory validation
 - Vehicle working condition simulation
 - Bottom line limit verification
- Accelerate module iteration verification
- Junction temperature test
 - Compatible with silicon and silicon carbide
 - Motor controller parameter open settings
 - Customization of working conditions
 - Support 2-station expansion combination

AC reactive power testing system RP9080

Features:

- Screening and testing of application levels for high reliability modules in vehicle regulations
- Simulate working conditions such as stalling, climbing, and starting and stopping traffic lights
- Compatible with over 30 module packages
- The testing time and working condition of 6 minutes can meet the production demand of 300000 modules per year
- Small footprint of approximately 2.8m²
- Support multiple workstation expansion combinations
- Support NTC/PTC/FRD temperature acquisition
- Support the integration of SECS/GEM, MES, and EAP systems



Towing test system

Based on an independently developed motor controller as the core control unit, the power semiconductor module is tested in conjunction with actual motor load testing. The testing items cover functionality, performance, reliability, limits, rotor blockage, short circuit, output capacity, and long-term working condition aging, and the testing effect is equivalent to the actual application of the customer.

Towing Test System DT9080

- Laboratory investigation and limit verification
- Accelerate module performance iteration verification
- 800V silicon carbide platform
- Compatible with over 40 module packages
- Motor controller parameter open settings
- Black box simple operation
- Simulate hill climbing, traffic light start stop, acceleration/deceleration, stall simulation, etc
- Scalable efficiency testing and junction temperature testing

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展位号 / Booth No: G34**深圳市禹龙通电子股份有限公司****Shenzhen Yulongtong Electronics Co., Ltd.**
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电话 / Tel: 0755-26835000

邮箱 / E-mail: yulongtong@vip.163.com

网址 / Web: http://www.yulongtong.com/

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 医疗电子 Medical Electronics

公司简介 / Company Profile:

深圳市禹龙通电子股份有限公司是一家专业从事射频电阻、芯片电容、负载、衰减器及吸波材料等射频器件研发与生产的国家高新技术企业。公司致力于为国内外移动通信、广播电视、医疗设备及航空、航天领域的设备系统提供各类优质的射频器件。

自2000年成立以来,公司聘请具有40年射频器件研究开发与生产经验的专家负责产品的开发与生产;在从事射频器件生产的人员中具有大专以上学历的占70%,专业队伍资源充足。公司技术力量雄厚,拥有自动化生产设备、先进的检测设备及完善的生产工艺,具备根据客户的不同需求进行开发和生产的能力。公司凭着过硬的研发技术、可靠的产品质量、完善的服务和良好的信誉,取得了长足的进步与发展。

经过多年不懈的技术创新,公司积累了多项科研成果,多项产品已获得国家实用新型专利。

我们热诚地希望与国内外相关行业公司达成广泛的合作,共同为通信行业的发展而努力!

Shenzhen Yulongtong Electronics Co., Ltd. is a leading manufacturer for the R&D / production / sales of RF series Chip Terminations / Resistors / Attenuators / Coaxial Terminations / Coaxial Attenuators / Absorbing Materials etc.

Yulongtong company is committed to providing various kinds of high-quality RF devices for Communication / Base station / Satellite Navigation / Broadcast TV / Antenna / Aerospace / RF Microwave device / RF Power supply / Medical Equipment etc.

Established in 2000, Yulongtong company have hired experts with 40 years of experience in the R&D and production of RF devices to be responsible for the development and production of products. 70% of the personnel engaged in the production of RF devices have college degrees, and the professional talent team have sufficient resources.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components

产品介绍 / Products Description:

IGBR 是具有防潮功能的大功率背接触式电阻器,可实现超高额定功率,具有适用于混合组件的微型外壳尺寸。具有精度高,可靠性出色,尺寸小,效果好,的优点。

电阻片产品一般用于功分器、合路器、限幅器、负载、衰减器、天线、TR有源模块、功放、控制电源等。广泛应用于航空、航天、雷达、电台、广播通讯、基站等领域。

同轴负载主要用于吸收射频或微波系统的功率可作为天线的假负载和发射机终端。也可作为多端口微波器件如环形器、方向耦合器的匹配端口,从而保证特性阻抗得到匹配,进行精确测量。

热敏电阻器一般是指电阻值随温度变化而变化的敏感元件。在工作温度范围内,电阻值随温度上升而增加的是正温度系数热敏电阻器;电阻值随温度上升而减小的是负温度系数热敏电阻器。

同轴衰减器定量吸收传输线中的能量,扩展功率量程,控制功率电平,并可配以小功率计、综合测试仪或频谱分析仪精确测量各种射频微波发射机的功率或频谱。

碳化硅吸波尖锥经1300°C高温烧结而成,主要用途为吸收电磁波。具有大功率、耐高温、真空环境下低放气量的特性。

碳化硅吸波材料产品无磁性,损耗机制为介电损耗。根据电磁参数仿真设计,通过磨加工的方式将平板毛坯料加工成设计尺寸,常用的形状为三角斜劈式。广泛应用于波导负载、隔离器、耦合器等其它大功率微波器件中。

橡胶板吸波材料可净化电磁环境，防止微波器件和设备的电磁干扰。适应频段为 300MHz~40GHz，吸波特性与进口产品相当，也可根据用户要求进行工作频段的设计开发。



IGBR is a high-power back-contact resistor with moisture resistance capabilities, capable of achieving ultra-high rated power and featuring a compact size suitable for hybrid assemblies. It offers advantages such as high precision, outstanding reliability, small size, and excellent performance.

Resistor sheets are generally used in power splitters, combiners, limiters, loads, attenuators, antennas, TR active modules, power amplifiers, control power supplies, and other applications. They are widely applied in fields such as aviation, aerospace, radar, radio stations, broadcasting communications, and base stations.

Coaxial loads are mainly used to absorb power in RF or microwave systems and can serve as dummy loads for antennas and transmitter terminals. They can also be used as matched ports for multi-port microwave devices like circulators and directional couplers, ensuring characteristic impedance matching for accurate measurements.

Thermistors generally refer to sensitive components whose resistance values change with temperature. Within their operating temperature range, a thermistor with a positive temperature coefficient (PTC) increases in resistance as temperature rises, while a thermistor with a negative temperature coefficient (NTC) decreases in resistance as temperature increases.

Coaxial attenuators quantitatively absorb energy within transmission lines, extend power ranges, control power levels, and can be paired with small power meters, comprehensive test instruments, or spectrum analyzers to accurately measure the power or spectrum of various RF and microwave transmitters.

Silicon carbide (SiC) absorbing cones are sintered at 1300°C and primarily used for electromagnetic wave absorption. They feature high power endurance, high-temperature resistance, and low outgassing in vacuum environments.

Silicon carbide absorbing material products are non-magnetic, with a loss mechanism based on dielectric loss. These materials are processed into specific shapes, often triangular wedges, through grinding based on electromagnetic parameter simulations. They are commonly used in waveguide loads, isolators, couplers, and other high-power microwave devices.

Rubber sheet absorbing materials can purify the electromagnetic environment and prevent electromagnetic interference in microwave devices and equipment. They cover a frequency range from 300 MHz to 40 GHz, with absorption characteristics comparable to imported products. Additionally, they can be custom-designed to meet user requirements for specific operating frequency bands.

展位号 / Booth No: B20

深圳市智胜新信息技术有限公司

Shenzhen Zeasset Electronic Technology Co., Ltd.



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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 医疗电子 Medical Electronics, 通信 Communications, 风能 Wind Energy

公司简介 / Company Profile:

智胜新电子成立于 2004 年, 是从事大型铝电解电容器和超级电容器研发、生产和销售为一体的国家级高新技术企业。公司总部设在深圳, 生产基地位于广东省惠州市惠南高科技产业园, 在上海、青岛、武汉等地设有分支机构。2017 年建立“智胜新工业园”, 占地 3.6 万平方米。企业先后荣获“国家高新技术企业”和深圳市“民营成长工程计划企业”称号。

企业设有研发中心, 研发工程师占企业总人数的 25%, 均具有 15 年以上研发工作经验。企业拥有包括发明专利、实用新型专利及软件著作权共 30 多项; 承接深圳市科创委多项技术攻关项目, 与国内外多家高校产学研合作。

企业引进欧美、日本、台湾等国家和地区的先进生产设备, 配备齐全与精密的检测和试验设备; 通过了 ISO9001、IATF16949 以及 ISO14001 的权威认证, 所有产品均满足 RoHS 环保认证, 部分产品通过 UL 安全标准认证及达到 AEC-Q200 可靠性试验标准; 同时在管理环节、制造环节、服务环节等诸多方面实现了标准化、信息化、制度化, 确保产品品质的保障。产品销往国内和全球各地。

产品范围 / Topics:

被动元件 Passive Components

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展位号 / Booth No: H32

碳矽電子股份有限公司

SiCEV Electronics Co., Ltd.
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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电机工程 Electrical Engineering, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

碳矽電子股份有限公司成立於 2021 年，是一家專業的碳化矽功率元件設計公司，擁有元件設計能力。其核心技术來自國立台灣大學的研究團隊，將 20 幾年的碳化矽知識和技術累積淬鍊而成。曾經獲得科技部的未來科技突破獎、FITI 激勵創新創業計劃競賽的第一名，也獲得科技部科研成果創業計劃的補助。除此之外，本公司的產品，也參加過台北光電展， Semicon Taiwan 半導體展，未來科技展等。且與台灣碳化矽晶圓代工廠、封裝測試廠商合作多年，上下游供應鏈暢通。

SiCEV is a professional IC design house that was established in 2021 and is based in Hsinchu, Taiwan. The company specializes in the design of power devices and integrated circuits (ICs) and focuses specifically on silicon carbide (SiC) technology. SiCEV has accumulated 20 years of knowledge and experiences in the field of SiC, making them a prominent player in the industry.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1. 碳化矽裸晶
2. 碳化矽蕭特基二極體與碳化矽金氧半場效電晶體
3. 碳化矽模組



TO-220-2L

TO-247-3L

TO-247-4L

1.Silicon Carbide Bare Dies

2.Silicon Carbide Metal-Oxide-Semiconductor Field-Effect Transistor

3.Silicon Carbide Modules

展位号 / Booth No: C48
清纯半导体 (宁波) 有限公司
SiChain Semiconductor (Ningbo) Co., Ltd



地址 / Add: 浙江省宁波市杭州湾新区玉海东路 136 号 42 栋
电话 / Tel: 021-56569835
邮箱 / E-mail: man.zhu@sichainsemi.com
网址 / Web: https://sichainsemi.com

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电力供应 Power Supply, 通信 Communications, 汽车工程 Automotive, 风能 Wind Energy

公司简介 / Company Profile:

清纯半导体 (宁波) 有限公司 (以下简称“清纯半导体”) 是一家聚焦于碳化硅 (SiC) 半导体领域的高科技芯片公司, 专业从事 SiC 功率器件的研发与产业化。2021 年 3 月成立于上海市宝山区。清纯半导体拥有国际领先水平的 SiC 器件设计及工艺研发团队, 团队核心从事 SiC 半导体技术 20 余年, 研发和产业化多代 SiC 功率器件, 包括 SiC 二极管和 MOSFET, 并先后通过工业级及车规级测试

Leading company in design and manufacturing of SiC power semiconductors, Founded in 2021, HQ based in Ningbo, with offices in Shanghai and Shenzhen. Over 20 years' experience in SiC power device R&D and mass production. SiC MOSFET and JBS with automotive qualification. Target market: electrified vehicle, renewable energy, charging station, power distribution & smart grid and industrial applications.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

清纯半导体的碳化硅 MOSFET 具有更高的开关频率和使用温度, 能够减小电感、电容、滤波器和变压器等组件的尺寸, 提高系统电力转换效率及降低对热循环的散热要求。清纯半导体碳化硅 MOSFET 取代硅功率器件, 能够实现更低的开关和导通损耗, 并具有更高的阻断电压和雪崩能力。主要适用于: 光伏逆变、储能、工业电源、新能源汽车、电机驱动、充电桩等领域。



SiC MOSFET 产品及量产规划

清纯半导体产品是极少数拥有**多电压平台**, **产品规格全**, **迭代速度快**的国产 SiC 品牌

V _{DS}	750V					1200V										1700V			2000V		2300V	
R _{DS(on)}	10mΩ	12mΩ	20mΩ	40mΩ	60mΩ	3.6mΩ	7mΩ	14mΩ	17mΩ	21mΩ	32mΩ	40mΩ	50mΩ	75mΩ	160mΩ	20mΩ	1Ω	50Ω	25mΩ	30mΩ	45mΩ	
Bare Die	●	●	24Q3	24Q2	24Q3	●	●	●	●	●	●	●	●	●	●	●	24Q2	24Q2	24Q3	24Q3	24Q3	
TO247-3	○	○	○	○	○			●	○	○	●	●	●	●	○	○	○			○	○	
TO247-4	●	●	24Q3	24Q2	24Q3			●	●	●	●	●	●	●	●	●	24Q2		24Q3	24Q3	24Q3	
TO247-4 Plus							●															
TO263-7			24Q3	24Q2	○					○	●	●	●	●	●		○				○	
TOLL				○	○									○	○	○						
SOT-227	●	●				●	●	●	●	●						●						

● Production ○ Development

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展位号 / Booth No: H26**希科半导体科技 (苏州) 有限公司****Sico Semiconductor Technology (Suzhou) Co., Ltd.**

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地址 / Add: 苏州工业园区双灯路 1 号苏州纳米城 III 区第三代半导体产业园 1 号楼 101、102、108 厂房
Room101,102,108, Unit 1, The Advanced Semiconductor Industrial Park, Zone III, Nanopolis Suzhou,
No. 1, Shuangdeng Road, Suzhou Industrial Park

电话 / Tel: +86-0512-62888567

邮箱 / E-mail: sales@sicosemi.com

网址 / Web: www.sicosemi.com

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics

公司简介 / Company Profile:

希科半导体科技 (苏州) 有限公司专注于第三代半导体核心关键材料—碳化硅外延晶片 (SiC Epitaxy Wafer) 的研发与产业化。产品主要用于制造 SiC SBD、SiC MOSFET、SiC JFET 和 SiC BJT 等碳化硅电力电子器件。

公司位于苏州纳米城三区第三代半导体产业园, 占地面积五千平米。创始团队拥有 15 年以上的碳化硅外延片量产经验。自成立以来, 公司已经通过 ISO9001、ISO45001、ISO45001、ITAF16949 质量体系认证。目前公司已经能够为客户提供 6 英寸 N 型和 P 型 SiC 外延片、8 英寸 N 型 SiC 外延片、6 英寸用于双极型器件的多层不同掺杂类型 SiC 外延片、超高压器件用的厚膜 SiC 外延片等多种产品。

希科半导体科技 (苏州) 有限公司凭借其卓越的创新能力和行业领先地位, 已荣获多项重要奖项, 包括江苏省双创奖、姑苏创新创业领军人才奖、园区领军项目奖, 以及苏州市独角兽培育企业奖。

SICO Semiconductor Technology (Suzhou) Co., Ltd. focuses on the research and industrialization of the third generation semiconductor core material - silicon carbide epitaxial wafers. The product is mainly used for manufacturing silicon carbide power electronic devices such as SiC SBD, SiC MOSFET, SiC JFET, and SiC BJT.

The company is located in the third generation semiconductor industrial park in the third district of Suzhou Nanocity, covering an area of 5000 square meters. The founding team has over 15 years of experience in mass production of silicon carbide epitaxial wafers. With the most advanced epitaxial process technology and production testing equipment in the industry, we provide customers with 6-inch conductive silicon carbide epitaxial wafers with low defect rates and high uniformity requirements. Since its establishment, the company has achieved multiple extension process innovations and localized replacement of core equipment, and has won major awards such as Gusu Innovation and Entrepreneurship Leading Talent and Suzhou Park Leading Project. In the future, it will continue to improve its research and development level, fully expand its market share, and rapidly grow into a benchmark enterprise with continuous research and development innovation capabilities, leading technology, and promoting technological progress in the entire industry.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage

产品介绍 / Products Description:

产品尺寸: 6 英寸

掺杂类型: N 型、P 型

外延浓度: 6E14-1E19/cm³

外延厚度: 0.2~120μm

管芯良率: ≥95%(3*3mm)

主要用途: MOSFET/SBD (650V~10kV)、RF 传感器

产品尺寸: 8 英寸

掺杂类型: N 型

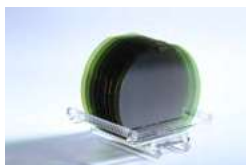
外延浓度: 6E14-1E19/cm³

外延厚度: 0.2~30μm

管芯良率: ≥95%(3*3mm)

主要用途: MOSFET/SBD (650V~3300V)

产品尺寸: 6 英寸
掺杂类型: NPN 多层复合型
外延厚度: 定制
主要用途: JFET、BJT、IGBT



Product size: 6 inches
Doping type: N-type, P-type
Epitaxial concentration: $6E14-1E19/cm^3$
Epitaxial thickness: 0.2~120um
Tube core yield: $\geq 95\%$ (3 * 3mm)
Main applications: MOSFET/SBD (650V~10kV), RF sensor

Product size: 8 inches
Doping type: N-type
Epitaxial concentration: $6E14-1E19/cm^3$
Epitaxial thickness: 0.2~30um
Tube core yield: $\geq 95\%$ (3 * 3mm)
Main application: MOSFET/SBD (650V~3300V)

Product size: 6 inches
Doping type: NPN multilayer composite type
Epitaxial thickness: customized
Main applications: JFET, BJT, IGBT

展位号 / Booth No: E52

细继光电有限公司

SIGETRONICS, INC.



地址 / Add: 497 Technovalley-ro, Bongdong-eup, Wanju-gun, Jeonbuk, Korea

电话 / Tel: +82 1092394666

邮箱 / E-mail: eomsm@sigetronics.com

网址 / Web: <https://www.sigetronics.com/>

产品应用范围 / Scope of Applications:

航空航天 Aerospace, 照明 Lighting, 汽车工程 Automotive

公司简介 / Company Profile:

Sigetronics 旨在通过提供更智能、更环保的先进的 M-FAB 技术为全球福祉作出贡献。我们独特的 M-FAB 结构构建了四个典型的 ESD、传感器、电源和 RF & Foundry。我们的产品由特殊的半导体材料（如 Si(Ge)、GaN）以及其他化合物制成，有利于开发模块、终端、系统和基础设施。

Sigetronics aims to contribute to the worldwide welfare with state-of-the-art M-FAB. technology through provision of smarter, greener, and even more informative functions. Our unique structure of M-FAB has constructed four typical sectors of ESD, Sensor, Power, and RF & Foundry. Our products are made of special semiconductor materials such as Si(Ge), GaN, and other compounds, which are beneficial for developing modules, terminals, systems, and infra structures.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 传感器 Sensors

产品介绍 / Products Description:

我们聚焦于速度、尺寸、重量和效率等必需原材料属性相关问题的最佳解决方案研发新的融合技术，解决未来可能的能源消耗和环境灾害问题。我们致力于客户在各个领域发展出世界级的企业。Sigetronics 凭着公司的信念分享和丰富资产，在建立商业和贸易中的强大互惠关系起至关重要的作用。我们的所有员工都以开放和热情的态度和冷静的头脑提供服务。



We strive to resolve issues regarding prospected energy consumption or environmental disasters by focusing on the best solutions for speed, size, weight and efficiency among other necessary properties. We believe that new convergence technology will be essential to such problems in the future. We will endeavor to have our customers grow world-class businesses in various fields. Sigetronics has incubated a faith of sharing as well as enriching assets, which is essential for building a strong mutual benefiting relationship in business and trade. Likewise, all employees of Sigetronics are willing to serve with the spirit of open-mind, hot-heart, and cool-brain as always.

展位号 / Booth No: C54

芯力能 (上海) 技术咨询有限责任公司

Silicon Mobility (Shanghai) Technology Consulting Co., Ltd.



地址 / Add: 上海市徐汇区复兴中路 1237 号 4 层 169 室

Room #169, 4F, No.1237 Fuxing Zhong Road, Xuhui District, Shanghai, PR China

电话 / Tel: +86 13661686713

邮箱 / E-mail: contact-china@silicon-mobility.com

网址 / Web: https://www.silicon-mobility.com/

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

芯力能 (Silicon Mobility) 是英特尔旗下的一家尖端技术公司, 它发明的 FPCU 是一种灵活、实时、安全和开放的半导体解决方案, 为汽车行业带来了革命性的变化。芯力能以安全、智能的方式加速汽车的动力系统电动化。

芯力能为汽车行业客户设计并销售创新型半导体、先进控制算法和配套工具链等一站式解决方案, 用于提高能源效率。我们向汽车厂商提供电动和混动汽车电机控制产品, 帮助车厂提升效率, 缩减电机尺寸、重量和成本, 同时增加电池续航里程和寿命。

自 2024 年 2 月起, 我们与英特尔汽车合作, 携手促进软件定义汽车的发展, 以实现新能源汽车能效的突破。

Silicon Mobility, an Intel company, is a pioneering technology company that has revolutionized the automotive industry with the invention of the FPCU - a flexible, real-time, safe, and open semiconductor solution. The main objective is to accelerate the transition to e-mobility in the cleanest, safest, and smartest way possible.

At Silicon Mobility, we design, develop, and sell solutions combining innovative semiconductor and advanced control algorithms for the automotive industry that increase energy efficiency. The products we supply to OEMs for electric motors control enable manufacturers to improve efficiency, reduce the size, weight, and cost of electric powertrain, and increase battery range and durability.

Since February 2024, in partnership with Intel Automotive we have the ambitious goal of accelerating the software-defined vehicle revolution, and thus bringing efficiency gains in electric vehicle (EV) energy management to the Automotive Industry.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 能源管理系统 Energy Management System

产品介绍 / Products Description:

1. OLEA® FPCU (现场可编程控制单元)

安全实时的车规级解决方案, 已获得 ASIL-D 认证。克服传统 MCU, DSP 只能序列执行导致的性能瓶颈。充分发挥可编程硬件和 MCU 性能, 为高阶算法提供支持 (FOC 控制频率达 >100kHz)。匹配下一代功率器件 SiC、GaN 优势。

2. OLEA® APP Inverter (嵌入式控制软件)

基于 OLEA FPCU 优化的车载逆变器和电机控制软件平台。支持原生模型开发, 提高软件开发效率和减少项目维护成本。集成丰富软件和控制算法。它不仅可以匹配 MOSFET 和 IGBT 功率器件, 也适用于新一代的 SiC 和 GaN 逆变器。



1. OLEA® Field Programmable Control Unit (FPCU)

ASIL-D certified, safe, real-time, and automotive qualified system-on-chip solution which overcomes the performance bottleneck caused by traditional MCU and DSP can only execute sequence. Give full play to the performance of programmable hardware and MCU, provide support for advance algorithms (FOC control frequency > 100kHz). Matching the advantages of next generation power devices SiC and GaN.

2. OLEA® APP Inverter

Scalable software platform for automotive inverter and e-motor control application optimized for the OLEA® FPCU. With native Model-Based-Design support, improve software development efficiency and reduce project maintenance cost. Integrate rich software and control algorithms. OLEA® APP Inverter support

It supports not only MOSFET and IGBT power transistors but is also suited for the latest technology SiC or GaN based inverters.

展位号 / Booth No: E48

珠海硅酷科技有限公司

Silicool Innovation Technologies(Zhuhai)Co.,Ltd.



地址 / Add: 珠海市高新区唐家湾镇盛业巷 50 号 101, 201

101 & 201 No. 50, ShengYe Lane, Tangjiawan Town, High-tech Zone, Zhuhai City, Guangdong Province, China.

邮箱 / E-mail: info@silicooltech.com

网址 / Web: https://www.silicooltech.com/

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 通信 Communications, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

SiliCool 是专注于智能制造领域的独角兽, 是专精特新、创新创业的优秀团队, 已获得多项认证和荣誉, 并得到中车资本、哇资本(汇川技术股东系)、琢石资本、同创伟业、华金资本、中兴创投、追远创投(腾讯高管)、梅花创投等数亿人民币的投资和支持, 保障了企业快速发展的动力。

公司现已超 100 人, 创始人及研发团队均来自全球顶级设备龙头企业, 深耕半导体行业十余年, 从业经验丰富。团队开发的 IGBT 设备上市一年已获得功率器件龙头企业数亿元订单, 在碳化硅预烧结贴片领域, 率先打破欧美垄断, 成为国内领先的设备生产商。

SiliCool 基于自有核心底层运控算法系统, 对空间精准贴合技术的各种应用进行深度研究, 完成智能高速高精设备的制造和销售, 服务于功率半导体、光学光电、先进封装、新能源等领域的相关头部客户。

SiliCool is a unicorn company focused on the die attach machine. It is an outstanding team specialising in innovation and entrepreneurship, having received multiple certifications and honors. The company has secured investments and support worth hundreds of millions of RMB from CRRC Capital, Value Capital (a shareholder of Inovance Technology), Tongchuang Weiye, Hua Fa Capital, ZTE Venture Capital, Zhuiyuan Venture Capital (Tencent executives), Meihua Venture Capital, among others, ensuring the driving force for rapid development.

The company now has over 120 employees. The founders and R&D team come from top global equipment leading enterprises and have over ten years of experience in the semiconductor industry. The IGBT equipment developed by the team has received orders worth hundreds of millions of RMB from leading power device companies within a year of its launch. In the field of silicon carbide pre-sintering die bonding, SiliCool has broken the monopoly of Europe and the United States, becoming a leading domestic equipment manufacturer.

Based on its core underlying motion control algorithm system, SiliCool conducts in-depth research on various applications of spatial precision fitting technology, completing the manufacturing and sales of intelligent high-speed high-precision equipment, serving leading customers in the fields of power semiconductors, optics and optoelectronics, advanced packaging, and new energy.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:



BT700
全自动 IGBT 模块贴装设备



SW1000
全自动烧结预贴设备



IB500
光通讯高速贴片机

展位号 / Booth No: B24

安徽希磁科技股份有限公司

Sinomags Technologies Co., Ltd.



地址 / Add: 安徽省蚌埠市经济开发区传感谷 C 区台玻路 321 号希磁科技产业园

No.321, Taibao Road, Sensor Valley C, Bengbu Economic Development Zone, Bengbu City, Anhui Province, China

邮箱 / E-mail: sinomags@sinomags.com

网址 / Web: https://www.sinomags.com/

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

希磁科技成立于 2013 年, 专注于磁性传感器的研发与生产, 融合了设计、研发、生产以及销售于一体的运营模式, 并坚持自主创新。

2021 年, 希磁科技收购了德国 Sensitec。拥有了安徽希磁科技、宁波希磁电子科技、无锡乐尔科技和 Sensitec 的全部股权与控制权, 完成了全球生产研发与业务的布局。

希磁科技产品系列包括: AMR, GMR, TMR 晶圆, 磁性传感器芯片, 磁性传感器模组以及磁性检测系统等。

作为一家高新技术企业和国家专精特新小巨人企业, 我们全球的员工人数接近 1000 人, 技术团队由磁学和电力学领域的多名专家领衔, 团队规模达近 200 人。

凭借对磁传感核心技术的深入掌握和持续创新, 希磁科技正为新能源发电、新能源汽车、智能电网、智能家居以及智能制造等行业提供更具竞争力的解决方案, 推动这些行业的技术进步和发展。

Founded in 2013, sinomags is dedicated to the development and production of magnetic sensors. We have four subsidiary companies in Germany, Wuxi, Ningbo, and Bengbu.

The company's R&D team consists of more than 200 R&D personnel with a number of experts in the field of magnetism and power electronics as the core, covering the design development and production of the whole industrial chain from xMR wafers to sensor modules.

With the mastery of the core technology of magnetic sensing and continuous innovation, sinomags is providing more competitive solutions for new energy power generation, new energy vehicles, smart grid, smart home, smart manufacturing and other industries.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 传感器 Sensors

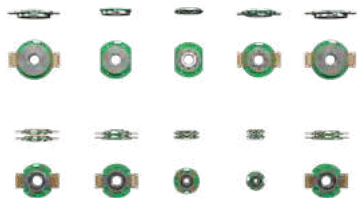
产品介绍 / Products Description:

高精密编码器

- ①基于 xMR 技术
- ②精度可达 1 角秒 (um)
- ③分辨率为 25 位
- ④可应用于半导体制造, 机床, 航空航天和机器人等领域

无磁芯电流传感器

- ①阶跃响应时间低于 50ns
- ②带宽高达 2 兆
- ③可应用于光伏、储能、充电桩、汽车电子、自动化、UPS 等领域



电流传感器
Current Sensor



High Precision Encoder

- ① Based on xMR technology
- ② Accuracy up to 1 arc second (um)
- ③ Resolution of 25 bits
- ④ Can be used in semiconductor manufacturing, machine tools, aerospace and robotics.

Coreless Current Sensor

- ① Step response time less than 50ns
- ② Bandwidth up to 2 megabytes
- ③ Can be applied to photovoltaic, energy storage, charging pile, automotive electronics, automation, UPS and other fields.

展位号 / Booth No: F34-B

SK powertech
SK powertech



地址 / Add: 广东省深圳市罗湖区人民南路深房广场 B 座 3402

3402 Block B Shenfang Guangchang No.3005 Renminnan Road Luohu Shenzhen China

电话 / Tel: 0755-22651953

邮箱 / E-mail: jhson@good-prosper.com

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

SK powertech 成立于 2017 年, 是韩国 SiC 电力半导体设计、制造企业, 也是 SK 集团的成员。SK Powertech 融合了国内首家 SiC 功率半导体的商业化经验和 SK 集团内的 SiC Wafer 材料, 从而产生了协同效应, 在技术、质量、Capa 等制造领域成为了拥有国际竞争力的公司的同时, 也强化了与主要客户和商业伙伴的对应能力, 加速扩大了 Global M/S。

SK powertech 希望通过 ESG 经营, 创造出利益关系人的可持续的幸福。

Founded in 2017, SK powertech is a South Korean SiC power semiconductor design and manufacturing company and a member of SK Group.

Leveraging the experience of the first commercialization of SiC power semiconductors in Korea and the synergy effect of SiC wafer materials within the SK Group, SK powertech has become a company with global competitiveness in the manufacturing sector. We are enhancing our ability to respond to major customers and business partners to accelerate global M/S expansion.

Our ultimate objective is to generate sustainable happiness for stakeholders through our ESG management approach.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 伺服技术 / 执行器 Electrical Drives, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage

产品介绍 / Products Description:

核心技术:

为量产 SiC 功率半导体产品, 拥有核心技术和技术

- SiC 包括核心单位工程技术在内, 具备整体工程技术, 可实现稳定的量产及开发
- 通过与 Wolfspeed, ROHM 等先进公司产品的粗劣比较验证, 已完成工程技术体现能力验证
- 设计技术以集成度为核心, 通过量产经验和战略性海外技术交流可改善

1. SiC DIODE (650V 1,200V 1,700V)

特性:

- 650V ~ 1,700V SiC Schottky Rectifiers
- Zero Reverse Recovery Time
- Temperature-Independent Switching Behavior
- Excellent Thermal Performance, T_{J,max} 175°C
- Excellent Surge Current Capability
- Pb-free, RoHS Compliant



2. SiC MOSFET (650V 1,200V 1,700V)

特性:

- Low On-Resistance
- High-Speed Switching
- High-Frequency Operation
- Fast Reverse Recovery
- Easy to Parallel & Simple to Drive
- Halogen Free, RoHS Compliant



Core Technology

For mass production of SiC power semiconductor products

Key Technology and Know-How

- It is equipped with batch process technical skills including SiC core unit process technology to ensure stable mass production and development.
- The capability to implement process technologies has been verified through comparative verification of barriers with advanced products such as Wolfspeed and ROHM.
- Design technology can be improved through experiences of mass production and strategic overseas technology exchanges.

1. SiC DIODE (650V 1,200V 1,700V)

Features:

- 650V ~ 1,700V SiC Schottky Rectifiers
- Zero Reverse Recovery Time
- Temperature-Independent Switching Behavior
- Excellent Thermal Performance, T_{J,max} 175°C
- Excellent Surge Current Capability
- Pb-free, RoHS Compliant

2. SiC MOSFET (650V 1,200V 1,700V)

Features:

- Low On-Resistance
- High-Speed Switching
- High-Frequency Operation
- Fast Reverse Recovery
- Easy to Parallel & Simple to Drive
- Halogen Free, RoHS Compliant

展位号 / Booth No: F26

广州汉源微电子封装材料有限公司

Solderwell Microelectronic Packaging Materials Co.,Ltd.



地址 / Add: 广东省广州市黄埔区科学城南云二路 58 号

No. 58, Yun'er Road, Science City South, Huangpu District, Guangzhou City, Guangdong Province.

邮箱 / E-mail: info@solderwell.com

网址 / Web: <https://www.solderwell.com.cn/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 通信 Communications, 计算电子 Computing Electronics

公司简介 / Company Profile:

广州汉源微电子封装材料有限公司, 一万多平方米的研发生产基地, 聚焦半导体封装材料和高端电子封装、电子组装材料的研发、制造和销售, 致力于为全球客户提供高性能的产品和产品应用整体解决方案。

Solderwell Microelectronic Packaging Materials Co.,Ltd. with a research and development production base of over 10000 square meters, focuses on the research and development, manufacturing, and sales of semiconductor packaging materials, high-end electronic packaging, and electronic assembly materials. It is committed to providing high-performance products and integrated product application solutions for global customers.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

IGBT 用焊料: 高纯度、低含氧、低空洞。通过添加特定微量元素, 焊料的抗拉强度和蠕变寿命显著提升。产品焊接后的焊点可靠性明显提高。



IGBT solder: high purity, low oxygen content, low porosity. By adding specific trace elements, the tensile strength and creep life of solder are significantly improved. The reliability of the welded joints of the product is significantly improved.

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展位号 / Booth No: D16

赛晶科技集团有限公司

Sun.King Technology Group Limited
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地址 / Add: 北京顺义区空港工业区 B 区裕华路空港融慧园 9-A

9-A, Airport Ronghui Park, Yuhua Road, Zone B, MAX Airport Industrial Park, Shunyi District, Beijing Municipality

电话 / Tel: +86-10-5630 1111

邮箱 / E-mail: info@sunking-tech.com

网址 / Web: <http://www.sunking-tech.com/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电力供应 Power Supply, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

赛晶科技集团有限公司 (简称“赛晶科技”), 是业内技术领先并深具影响力的电力电子器件供应商和系统集成商。赛晶科技成立于 2002 年, 2010 年在香港主板上市 (股票代码 0580.HK)。至今, 赛晶科技已经发展为员工总数近 800 人, 年销售额超 10 亿元, 在北京、浙江嘉善、江苏无锡、湖北武汉以及欧洲的瑞士和德国, 拥有十余家子公司的集团公司。

我们坚持“以科技创新作为企业发展的第一驱动力”的经营理念, 专注于两大高端技术领域:

功率半导体及配套器件技术: 国内首个且唯一自主技术阳极饱和电抗器、国内首个柔直用直流支撑电容器、国内技术领先的层叠母排等;

前沿性电力电子技术: 世界最先进的固态开关和脉冲电源、拥有国际发明专利的阻抗测量、国内技术领先的在线监测等。

我们在嘉善、无锡、武汉建立了三大国内研发中心, 并在瑞士、德国建立了三大海外研发团队。我们拥有专项研发团队 10 个, 包含技术研发人员超 200 人, 占员总数比例超过三分之一。我们取得了九项国家级能源技术成果认证、二十余项省市级技术创新荣誉, 以及超过三百项专利证书。我们的创新技术成果在新能源发电、直流输电、智能电网、电动汽车、轨道交通、船舶、通信、科研, 以及工业控制等电力系统的各个环节获得广泛应用。

赛晶科技, 秉承“追求卓越、共赢未来”的经营理念 and “以科技创新, 推动绿色能源发展”的企业使命, 以面向未来的创新技术, 为新能源全产业链发展和新型电力系统构建做出贡献。

Sun.King Technology Group Limited (hereinafter referred to as Sun.King Technology) is an industry-leading and influential power electronic device supplier and system integrator. Incorporated in 2002, Sun.King Technology went public on the HKEX Main Board (stock code: 0580.HK). Sun.King Technology now has nearly 800 people on the payroll, with annual sales of over CNY 1 billion. We are a corporation composed of a dozen subsidiaries in Beijing, Jiashan, Zhejiang, Wuxi, Jiangsu, Wuhan, Hubei, as well as Switzerland and Germany in Europe.

Upholding the management philosophy "technology & innovation is primary driver to business development", we are specializing in two advanced technical fields:

Power semiconductor and relevant devices: the first and only self-developed anode saturable reactor (AsR) and first flexible DC-link capacitor and most advanced laminated busbar in China;

Cutting-edge power electronics: state-of-the-art solid-state switch and pulsed power supply, impedance measurement granted with international invention patent, and tech-leading online monitoring in China.

We have established three domestic R&D centers in Jiashan, Wuxi and Wuhan, and three overseas R&D teams in Switzerland and Germany. We boast 10 R&D teams of over 300 R&D professionals who represent more than 1/3 of the staff. We have obtained nine state-level energy tech achievement certifications, over twenty provincial municipal tech & innovation accolades, and more than two hundred patents. Our outcomes of tech & innovation are in extensive use in new energy power generation, DC power transmission, smart grid, electric vehicle, rail transit, shipping, communication, scientific research, as well as industrial control and other facets of electric power systems.

Upholding the management philosophy of "pursuit of excellence and win-win future" and mission of "promoting green energy development through technology and innovation", Sun.King Technology is dedicated to development of new energy industry chain and construction of new electric power system, through future-oriented technology and innovation.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

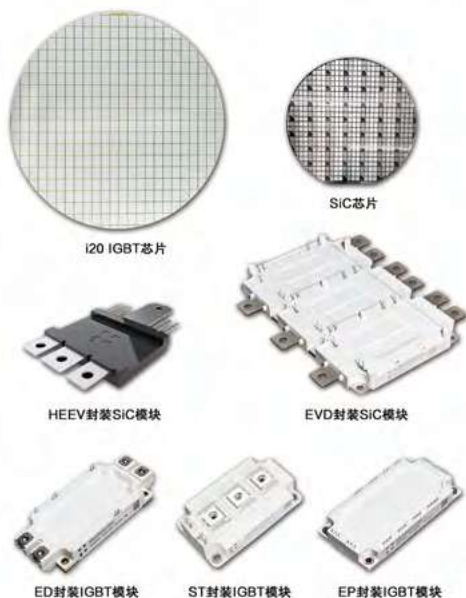
产品介绍 / Products Description:

IGBT 芯片和二极管芯片产品

赛晶以应用需求为基础, 并以应用可靠性为目的, 开发出了 i20 IGBT 和 d20 二极管芯片组。其中, i20 IGBT 芯片采用先进沟槽栅技术, d20 二极管芯片采用先进软恢复技术。

ED 封装模块产品

1200V 和 1700V ED 封装模块采用赛晶自研 IGBT 和二极管芯片组, 降低损耗, 并提高 1200V 模块额定电流可达 2x750A。采用市场主流封装并采用先进的封装工艺和优质的封装材料, 以保证模块高可靠性和长寿命等性能。



IGBT Chip and Diode Chip Products

Based on application requirements and aimed at application reliability, Sun.King has developed i20 IGBT and d20 diode chipsets, wherein i20 IGBT chip and d20 diode chip are built on advanced trench gate technology and soft recovery technology respectively.

ED Type Module Products

With Sun.King's self-developed IGBT and diode chip embedded, 1200V and 1700V ED Type modules have lower loss, and rated current of 1200V module peaks at 2x750A. The products are under mainstream package. The use of advanced packaging technology and premium packaging materials is aimed at ensuring sound performance, high reliability and long service life.

展位号 / Booth No: C38

进工贸易 (上海) 有限公司

SUSUMU INTERNATIONAL TRADING (SHANGHAI) CO.,LTD



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Room 422 NO.8 Huajing Road Pilot Free Trade Zone(Shanghai)China

电话 / Tel: +86-21-50464992

邮箱 / E-mail: susumu@susumu.sh.cn

网址 / Web: http://www.susumu.sh.cn

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

SUSUMU 是世界上首家生产和销售薄膜电阻的厂家, 创业至今制作薄膜电阻 60 年, 是薄膜电阻技术的先驱。

SUSUMU 的薄膜电阻有着高精度, 低温漂, 长期信赖性优良等特点。广泛应用于汽车、机器人、精密测量仪器等场景。

As the pioneer of the thin film resistor's innovator, we are specialized in making & marketing about the product.

产品范围 / Topics:

被动元件 Passive Components

产品介绍 / Products Description:

1. 高精度薄膜贴片电阻器

URG 系列、RG 系列、RGT 系列、RGV 系列、RS 系列、PRG 系列、HRG 系列、MRG 系列、RGA 系列、RM 系列、RMA 系列

2. 电流检测用采样电阻器

KRL 系列长边电极、KRL 系列短边电极、KRL 系列 4 电极、PRL/RL 系列长边电极、RL 系列短边电极

3. 高频表面贴装元件

RFD 系列、ATS-FD 系列、ATF 系列、PAT 系列、P*V 系列、PS 系列、PCS 系列、HPT 系列



1:Thin Film Resistors for High Precision (URG series, RG series, RGT series, RGV series, RS series, PRG series, HRG series, MRG series, RGA series, RM series, RMA series)

2: Currentsensing resistor (KRL series of long-edge electrode, KRL series of short-edge electrode, KRL series of four- electrode, PRL/RL series of long-edge electrode, RL series of short-edge electrode.)

3:High-frequency of Surface Mounted Devices(RFD series, ATS-FD series, ATF series, PAT series, P*V series, PS series, PCS series, HPT series)

展位号 / Booth No: G06

苏州宝士曼半导体设备有限公司

Suzhou Boschman Semiconductor Equipment Co. Ltd.,



地址 / Add: 江苏省苏州市吴中区胥口镇胥路 188 号 1 号楼

No. 188 Xixu Road, Wuzhong District, Suzhou, China.

电话 / Tel: 0512-66533125

邮箱 / E-mail: sales.cn@boschman.nl

网址 / Web: <https://www.boschman.nl/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 光伏 Solar Energy, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 通信 Communications, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

Boschman 成立于 1987 年, 拥有苏州、荷兰与新加坡三个研发制造基地, 主要在 SIM 卡与分离器件封装、传感器与 MEMS 封装、功率模块封装和 rotor molding (马达转子) 封装四个领域开展业务。业务的开展形式为: 替客户进行器件的整体封装设计与开发、Transfer molding(传递模塑封) 封装设计与模具销售、Sintering (烧结) 封装设计与模具销售、Transfer molding(传递模塑封) 设备研发与销售、Sintering (烧结) 设备研发与销售、封装器件打样与小批量生产及备件和售后服务。

Boschman established in 1987, has three R&D and manufacturing bases in Suzhou, the Netherlands and Singapore, and mainly develops business in four areas: SIM card and separator packaging, sensor and MEMS packaging, power module packaging and rotor molding packaging.

The business is carried out in the form of overall package design and development of devices for customers, Transfer molding package design and mold sales, Sintering package design and mold sales, Transfer molding equipment development and sales, Sintering equipment development and sales, package device prototyping and small-scale sales. Sintering) equipment development and sales, packaging device sampling and small batch production, and spare parts and after-sales service.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 传感器 Sensors, 伺服技术 / 执行器 Electrical Drives, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System

产品介绍 / Products Description:

1.SINTERSTAR Inline: 我们的全自动银烧结系统在市面上绝对具有最高的产能。我们的系统能够烧结各种各样的器件: 尤其是 LED、电源器件夹 / 散热器组件、太阳能电池、定制的电源模块等。这些系统的优势是具有最大的烧结面积 350x270mm、精确的工艺控制, 还能够监测、记录众多关键参数, 以根据预设的上限和下限控制水平自动控制质量。我们的所有系统均可配合各种各样的烧结工具。

2.SINTERSTAR Mini: 专为大学、实验室、研发部门和中小型企业设计的机型。易于使用, 45 分钟内即可投入运行; 快速转换; 可快速运行不同的工艺测试和产品; 可烧结多种产品。

3.UNISTAR Innovate: 可处理标准料饼颗粒、粉末和液体封装材料。标配大多数宝士曼独特而广泛的薄膜辅助成型 (FAM) 技术。适用于封装技术研究、封装开发、工艺优化、验证运行和中小批量生产。该系统可处理测试模具、单条模具和双条模具。



1.SINTERSTAR Inline: Our fully automatic Ag sintering systems offer the absolute highest throughput available in the market. Our systems are capable of sintering a wide range of different devices: among others LEDs, Power Devices Clip/heatsinks assemblies, solar (CVP) cells, custom designed power modules and more. The systems excel in offering the largest sinter area of 350x270 mm, precise process-control and –monitoring, logging large number of key parameters to auto control the quality with pre-set upper and lower control levels. All our systems can be equipped with a large variety of sintering tool concepts.

2.SINTERSTAR Mini: Designed for Universities, Laboratories, R&D departments and SME

companies. Easy to use. Ready for operation in 45 minutes. Fast change-over; quickly run different process tests and products. Wide variation of products can be sintered.

3.UNISTAR Innovate: Can handle standard mini-pellets, powder and liquid encapsulation materials. Comes standard with most Boschman unique and extensive Film Assisted Molding (FAM) technologies. Suitable for package technology research, package development, process optimization, qualification runs and small to medium size production volumes. This system can handle test molds, 1-strip molds and 2-strip molds.

展位号 / Booth No: H19

苏州欧菲特电子股份有限公司

Suzhou GeneralTest Electronics Corp.



地址 / Add: 江苏省苏州市昆山市千灯镇许塘路 1 号

No1 Xutang Road, Qiandeng Town, Kunshan City, Jiangsu Province

电话 / Tel: +86-512-57400820

邮箱 / E-mail: ping.liu@ofttest.com

网址 / Web: http://www.ofttest.com/

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 医疗电子 Medical Electronics, 通信 Communications, 汽车工程 Automotive

公司简介 / Company Profile:

公司提供产品研发、质量控制、产品性能验证、生产线测试和自动化产线及数字化工厂的整体解决方案, 并提供嵌入式软硬件开发, 系统集成, 单台和线体自动化设备和相关附件开发设计。产品包括各种测试系统开发, 各种测试夹具的设计和生, 自动化产线及数据化工厂解决方案; 产品有高品质、高灵活的特质, 特别是针对特殊测试需要的工业产品测试的专门解决方案, 赢得了众多知名客户的青睐。

The company provides product research and development, quality control, product performance verification, production line testing and automated production line and digital factory overall solutions, and provides embedded hardware and software development, system integration, single and line body automation equipment and related accessories development and design. The products include the development of various test systems, the design and production of various test fixtures, automated production lines and data chemical plant solutions; Products have high quality, high flexibility characteristics, especially for special testing needs of industrial product testing solutions, won the favor of many well-known customers.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 测试和测量 Test & Measurement, 开发软件 Development Software

产品介绍 / Products Description:

动态栅极可靠性测试设备

产品介绍: 主要用于半导体器件的动态栅偏试验。设备可以施加指定的栅极压力 (具体压力客户可以根据实际需求进行配置), 能通过计算机设定试验参数和监控参数, 采集并记录所有实时测试参数, 如温度、时间、电压、漏电流等, 试验过程中可以按照程序设置要求进行阈值电压 VGETH 等参数的监测。机台阈值电压测量满足测试标准 AQG324、JEP183A 的 Gated-diode 方法, 同时参考 JEP184 给出各种测试模型。



HTDGS Dynamic gate bias burn-in test equipment

Equipment introduction: HTDGS (The high-temperature dynamic gate bias test system) is mainly used for the power semiconductor dynamic gate bias burn-in test, and the equipment can apply a specified gate bias pressure (Voltage can be configured according to customer requirement), test software can setup the measurement parameters and monitor parameters, collect and record all real-time test parameters, Such as temperature, time, voltage, leakage current, etc., during the test process, the threshold voltage VGETH

and other parameters can be monitored according to the program setting requirements, The threshold voltage measurements meet the standards AQG324, JEP183A Gated-diode method, and refer to JEP184 measure circuit mode.

展位号 / Booth No: C50
苏州广林达电子科技有限公司
SUZHOU GRANDA CO., LTD



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No.629, Changwang Road, Xiangcheng District, Suzhou, Jiangsu province
电话 / Tel: +86-512-68733459
邮箱 / E-mail: lp@szgranda.com
网址 / Web: http://www.granda.com

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 通信 Communications, 汽车工程 Automotive, 风能 Wind Energy

公司简介 / Company Profile:

苏州广林达电子科技有限公司地处苏州相城区, 建设用地 20 亩, 自有研发大楼 8000 平米, 自有自动化生产装备车间 20000 平米, 广林达是一家专注于光电显示、半导体封测领域的检测和智能装备系统提供商, 从研发、实验室到生产线, 广林达均可为客户提供全面优质的解决方案, 广林达注重高效、高质、高附加值, 深受客户认可。在显示领域, 广林达深耕十多年, 核心产品包括 Gamma 自动调整烧录设备、Demura 设备、自动均匀性检查设备等。在半导体封测领域, 广林达自主研发了超声扫描、磨片、匀胶显影、贴片等多个系列产品, 囊括了半导体产品从制造到封测的重要环节, 其中, 不乏已在知名大厂实现批量稳定应用的高端自动线产品。

Suzhou Granda Electronics Technology Co., Ltd. is located in Xiangcheng District, Suzhou, covering an area of 20 acres. It has its own R&D building of 8,000 square meters and an automated production workshop of 20,000 square meters. Granda specializes in providing testing and intelligent equipment systems in the fields of optoelectronic displays and semiconductor packaging and testing. From research and development to laboratory services and production lines, Granda offers comprehensive and high-quality solutions for its customers, emphasizing efficiency, high quality, and added value, which has earned it strong recognition from clients. With over a decade of experience in the display sector, Granda's core products include Gamma automatic adjustment programming equipment, Demura equipment, and automatic uniformity testing devices. In the semiconductor packaging and testing area, Granda has independently developed a series of products such as ultrasonic scanning, wafer grinding, uniform coating development, and die bonding, covering crucial stages from manufacturing to packaging, including high-end automated line products that have been stably applied in large well-known factories.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 能源储存系统 Power Quality & Energy Storage, 测试和测量 Test & Measurement

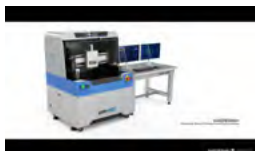
产品介绍 / Products Description:

苏州广林达 GRD-CS 系列单机型、自动线型超声波扫描显微镜是以波形、图形为显示方式的一种无损检测工具。该设备主要是利用材料内部组织密度不同而对超声波声阻抗、超声波吸收与反射程度产生差导的特点, 从而实现材料内部的缺陷位置、大小和分布状态的定性分析, 超声波对粘接层面非常敏感, 能够检测出气孔、气泡、空洞、裂纹、夹杂和分层等诸多缺陷, 可以保留在破坏性检测中被丢失的细微缺陷, 样品通过检测后可以继续使用, 是一种提供高分辨率且不被破坏检测样品的无损检测手段。主要应用于失效分析、可靠性分析、制程控制、品质控制、产品研发、工艺提升等。

苏州广林达 GRD-AG 系列减薄机, 该设备采用单磨削主轴和单载片台的配置, 通过手动上下料, 可完成晶片的自动磨削。

原理: 高速旋转的主轴带动砂轮对真空吸附在载片台上的晶圆进行磨削。

组成: 主机、磨削主轴、Z 向运动单元、载片台、Y 向工作台、测量模域、系统防护模块、控制模块等。



Product Introduction:

The Granda GRD-CS series ultrasonic scanning microscope, available in both standalone and automatic line models, is a non-destructive testing tool that displays results through waveforms and graphs. This equipment utilizes the differing internal material densities to create variations in ultrasonic acoustic impedance, absorption, and reflection, allowing for qualitative analysis of defect locations, sizes, and distributions within the material. Ultrasonic technology is highly sensitive to bonding surfaces, enabling detection of defects such as pores, bubbles, voids, cracks, inclusions, and delamination. It can identify subtle defects that may be lost in destructive testing, allowing the tested samples to remain usable. This non-destructive method provides high resolution without damaging the test samples and is primarily used in failure analysis, reliability assessment, process control, quality management, product development, and process enhancement.

The Granda GRD-AG series thinning machine features a single grinding spindle and a single loading table configuration. It allows for manual loading and unloading while automating the wafer grinding process.

Principle: The high-speed rotating spindle drives the grinding wheel to grind the wafer that is vacuum-adsorbed onto the carrier table.

Components: The system consists of the main machine, grinding spindle, Z-axis movement unit, loading table, Y-axis work table, measurement mold module, system protection module, and control module.

展位号 / Booth No: B23

苏州圭石科技有限公司

Suzhou S-tiger Technology Co., Ltd.



地址 / Add: 江苏省苏州市高新区银珠路 15 号 3 号厂房

Building 3, No.15 Yinzhu Road, SND, Suzhou City, Jiangsu Province, China.

电话 / Tel: +86-15190585770

邮箱 / E-mail: fiona.li@s-tiger.cn

网址 / Web: <http://www.s-tiger.cn/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

苏州圭石科技有限公司专注于功率半导体工艺制程设备, 自主研发第三代功率半导体模块核心工艺及芯片性能测试的解决方案, 与业内头部客户深度合作, 并获得主流市场的高度赞誉。圭石科技以技术创新为根本驱动力, 不断探索和突破, 致力于推动功率半导体行业的蓬勃发展。

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 伺服技术 / 执行器 Electrical Drives, 智能运动 Intelligent Motion, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 测试和测量 Test & Measurement, 开发软件 Development Software

产品介绍 / Products Description:

芯片动静态测试设备采用多轴联动控制, 具备高速度、高精度及高稳定性的特点。可以适应常温、高温 KGD 测试, 可配置防火压力室以及六面外观检测功能。探针卡更换及维护方便, 可选配多种供料及收料方式。具备动态分 BIN、集群测试及全程数据追溯的功能。



展位号 / Booth No: C52

苏州源特半导体科技有限公司

Suzhou Very Power Semiconductor Co., Ltd.

V2SC 源特科技

地址 / Add: 江苏省苏州工业园区金鸡湖大道 99 号苏州纳米城西北区 20 幢 524 室

524, CN-20, Nanopolis SuZhou, 99 Jinji Lake Avenue, SuZhou Industrial Park, Jiangsu Province, China

邮箱 / E-mail: yan0517@vpsct.cn

网址 / Web: <https://www.vpsct.cn>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 电力供应 Power Supply, 通信 Communications, 风能 Wind Energy

公司简介 / Company Profile:

苏州源特半导体科技有限公司是专注于工业级、汽车级中小功率电源管理芯片和功率模组研发及电源整体解决方案的国家高新技术企业。公司核心团队由行业资深专家组成, 拥有 100% 自主知识产权。公司总部位于苏州, 在广州、深圳均设立了分支机构。产品线包括隔离 DCDC 转换器、PWM 控制器、整流器、线性稳压器、LED 驱动器以及配套磁性元件。

源特科技以促进电源管理提升为使命。依托自主创新, 致力于中小功率电源管理芯片的研发、设计、生产、销售并提供技术服务。专业的技术支持服务, 为工业自动化、智能电网、通信设备、新能源、汽车电子、医疗电子、智慧城市等领域客户提供高性能、高可靠电源系统整体解决方案。

Suzhou Yuante Semiconductor Technology Co., Ltd. is a national high-tech enterprise that focuses on the research and development of industrial and automotive grade small and medium-sized power management chips and power modules, as well as overall power supply solutions. The core team of the company is composed of senior industry experts, with 100% independent intellectual property rights. The company is headquartered in Suzhou and has established branches in Guangzhou and Shenzhen. The product line includes isolated DC-DC converters, PWM controllers, rectifiers, linear regulators, LED drivers, and matching magnetic components.

Our mission is to promote the improvement of power management.

Relying on independent innovation dedicated to the research and development, design, production, sales, and technical services of small and medium-sized power management chips. Professional technical support services. We provide high-performance and highly reliable power system solutions for customers in industries such as industrial automation, smart grids, communication equipment, new energy, automotive electronics, medical electronics, smart cities, and more.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

隔离 DCDC 转换器, PWM 控制器, 线性 and 低压降 (LDO) 稳压器



Isolation DCDC converter, PWM controllers, Linear & low-dropout (LDO) regulators

展位号 / Booth No: F40

苏州华太电子技术股份有限公司

Suzhou Watech Electronics Co., Ltd.



地址 / Add: 苏州市工业园区星湖街 328 号创意产业园 10-1F

10-1F, Creative Industry Park, 328 Xinghu Street, Suzhou Industrial Park

电话 / Tel: 051285180000

邮箱 / E-mail: MKT@huatai-elec.com

网址 / Web: https://www.huatai-elec.com/

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 风能 Wind Energy

公司简介 / Company Profile:

苏州华太电子技术股份有限公司（简称：华太），成立于 2010 年 3 月，是一家拥有半导体产业链多环节底层核心技术、多领域布局协同发展的平台型半导体公司。公司主要从事射频系列产品、功率系列产品、专用模拟芯片、工控 SoC 芯片、高端散热材料的研发、生产与销售，并提供大功率封测业务，产品可广泛应用于通信基站、光伏发电与储能、半导体装备、智能终端、新能源汽车、工业控制等大功率场景。

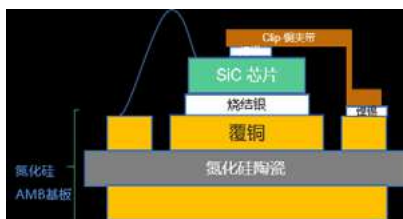
Suzhou Watech Electronic Co., Ltd.(abbreviation: Watech), established in March 2010, is platform-based semiconductor company with underlying core technologies in multiple links of the semiconductor industry chain and coordinated development in various fields. The company is mainly engaged in the R&D, production, and sales of radio frequency products, power series products, special analog chips, industrial control SoC chips, and advanced heat dissipation materials. Watech also provides high-power assembly and testing services. Watech products can be widely used in high-power scenarios, mainly focus on IoE (Internet of Energy) and digital energy applications.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management

产品介绍 / Products Description:

1. 超结 IGBT: 国内第一款采用超结技术的 Super IGBT, 加快载流子符合, 可以获得更快的开关速度, 更低的开关损耗。
2. 氮化硅基板: 热导率、热膨胀系数等特性可完美匹配 Si/SiC 芯片; 良好的热传导性、耐高温性能和机械强度; 良好的表面附着力, 提升 AMB 烧结可靠性, 提升良率。



1.SJ IGBT: The first Super IGBT using super junction technology in China, speeding up carrier coincidence, can obtain faster switching speed, lower switching loss.

2.High thermal conductivity, thermal expansion coefficient and other characteristics can perfectly match Si/SiC chips; good thermal conductivity, high temperature resistance, and mechanical strength.

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展位号 / Booth No: G12
苏州悉智科技有限公司
Suzhou XiZ-Tech Co., Ltd.
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XiZ-Tech

地址 / Add: 苏州工业园区双灯路1号苏州纳米城III区第三代半导体产业园1号楼
Building 1, Third Generation Semiconductor Industrial Park, Zone III, Suzhou Nano City, No. 1
Shuangdeng Road, Suzhou Industrial Park.
电话 / Tel: +86-0512-65185036
邮箱 / E-mail: yaqing.cui@xiz-tech.com
网址 / Web: <https://www.xiz-tech.com/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电力供应 Power Supply, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

苏州悉智科技有限公司是一家涵盖产品定义、开发、制造、销售能力的先进材料与电力电子应用技术公司, 公司布局第三代半导体 SiC/GaN, 兼顾高性能 IGBT, 专注塑封封装路线, 兼容标准模块接口, 通过定制开发, 为客户推出更优性能、更高质量、更低成本的功率与电源模块创新产品。公司围绕新能源智能车的电驱、电源、供电系统, 以及新能源光储充的光伏逆变、储能并网、超充电源系统推出最具竞争力的功率与电源模块及系统产品。

Suzhou Xi Zhi Tech is a technology company engaged in advanced material and power electronics application, integrating product definition, development, manufacturing and sales capabilities.

We are dedicated to the packaging of power modules with third-generation semiconductor Silicon Carbide and Gallium Nitride, while also considering high-performance IGBTs. Our products are compatible with standard module interface while focusing on molding type modules. We are introducing the innovative power module and modular power products with better performance, higher quality and lower cost to our customers by customized development.

We are continuously providing competitive power modules, modular power and system products, in the field of the power train, power supply systems for intelligent new energy vehicles and PV inverters, energy storage system, super-charging power systems for grid connection in the new energy industry.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1、SiC MOSFET DCM - 8

超低环路电感, 更低的电压尖峰; 更小的寄生电阻; 均衡的动态均流; 更低的串扰电压; Si3N4 基板 & pin-fin 冷却结构使得热阻更小; 最大工作结温 175℃

2、SiC MOSFET PM6

超低环路电感, 更低的电压尖峰; Si3N4 基板 & pin-fin 冷却结构使得热阻更小; 最大工作结温 175℃



1、SiC MOSFET DCM - 8

Optimized 1200V high performance SiC technology; Built-in NTC thermistor for temperature monitoring; High voltage decoupling capacitors for noise immunity; AlN substrate for reinforced thermal management; Enhanced electrical isolation and creepage; High speed switching Operating temperature: 175 °C (max); low switching losses; High blocking voltage with low on-resistance; Fast intrinsic diode with low reverse recovery (Qrr); Temperature independent turn-off switching losses; Lead free, RoHS compliant

2、SiC MOSFET PM6

Ultra-Low Loop Inductance to lower voltage spike; Si3N4 substrate & pin-fin cooling structure for ultra-low thermal resistance; Maximum work junction temperature 175℃

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展位号 / Booth No: G57**北京天科合达半导体股份有限公司**
TanKeBlue Semiconductor Co., Ltd.
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地址 / Add: 北京市大兴区黄村镇丰远街 1 号院

No. 1, Fengyuan Street, Huangcun Town, Daxing District, Beijing, P.R. China.

邮箱 / E-mail: marketing@tankeblue.cn

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 通信 Communications, 风能 Wind Energy

公司简介 / Company Profile:

北京天科合达半导体股份有限公司成立于 2006 年 9 月, 总部位于北京, 是国内率先从事第三代半导体碳化硅单晶衬底及相关产品研发、生产和销售的国家级高新技术企业之一, 也是国内碳化硅单晶衬底领域生产规模较大、产品种类较全的碳化硅衬底供应商, 并于 2021 年被工信部认定为专精特新“小巨人”企业。

TanKeBlue Semiconductor Co., Ltd. was established in September 2006 and is headquartered in Beijing. It is one of the first national high-tech enterprise specializes in the R&D, production and sales of third generation SiC substrate and related products in China, and is also a large SiC supplier with comprehensive categories in China. TanKeBlue is certified as a "Little Giant" firm by Ministry of Industry and Information Technology since 2021.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

6 英寸导电型衬底:

导电型碳化硅衬底是导电型碳化硅晶体经过切割、研磨、抛光、清洗等工序加工形成的单晶薄片。单晶衬底薄片作为第三代半导体的重要原材料, 经过同质外延生长、晶圆制造、封装检测等环节, 可制成碳化硅基功率器件, 是第三代半导体产业发展的重要基础材料。6 英寸导电型衬底是目前行业主流尺寸产品。天科合达的 6 英寸导电衬底的品质已达到国际水准, 并且拥有极高的性价比。经过下游客户的全面验证, 产品性能稳定可靠, 已在车规级和工业级应用中取得显著成果。

8 英寸导电型衬底:

8 英寸碳化硅衬底因其有效利用面积与 6 英寸相比提高接近 90%, 外延和晶圆制造成本增加不明显, 且制程较 6 英寸更为先进等因素, 可有效降低单个器件成本, 在未来具有广阔的增长空间。天科合达目前已掌握高质量 8 英寸导电型碳化硅衬底制备的关键技术。



6-inch SiC Conductive Substrate:

Conductive SiC substrate is a monocrystalline formed by conductive SiC crystal processing through cutting, grinding, polishing, cleaning and other processes. As an important raw material for the third-generation semiconductors, monocrystalline substrate wafers can be made into SiC based power devices after homogeneous epi-wafer growth, wafer manufacturing, packaging and testing and other processes. Currently, 6-inch conductive substrates are the mainstream size product in the industry. TanKeBlue's 6-inch conductive substrates have reached international standards in quality and have a very high cost-effectiveness. After comprehensive verification by downstream customers, the product performance is stable and reliable, and significant results have been achieved in automotive grade and industrial applications.

8-inch SiC Conductive Substrate:

Due to 8-inch SiC substrate's effective use of the area compared with 6-inch increase of close to 90%, epi-wafer and wafer manufacturing cost increase is not obvious, and the process is more advanced than 6-inch and other factors, can effectively reduce the cost of a single device, in the future has a broad space for growth. TanKeBlue has mastered the key technology of high-quality 8-inch conductive SiC substrate preparation.

展位号 / Booth No: G25

泰克科技 (中国) 有限公司

Tektronix(China)Co.,Ltd.

Tektronix

地址 / Add: 上海市长宁区福泉北路 518 号 9 座 5 楼

5th floor, block 9, 518 Fuquan North Road, Changning District, Shanghai

电话 / Tel: 400-820-5835

邮箱 / E-mail: china.mktg@tektronix.com

网址 / Web: https://www.tek.com.cn/

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 通信 Communications, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

泰克科技成立于 1946 年, 作为全球领先的测试测量仪器及系统方案提供商, 始终致力于提升工程师在产品设计及调试阶段的信心及效率。我们的办事处遍布于 21 个国家和地区, 为全球科学家、工程师和技术人员提供服务和支持。

We are the measurement insight company committed to performance, and compelled by possibilities.

Tektronix designs and manufactures test and measurement solutions to break through the walls of complexity, and accelerate global innovation. Together we empower engineers to create and realize technological advances with ever greater ease, speed and accuracy. Tektronix solutions have supported many of humankind's greatest advances of the past 70 years. Health. Communication. Mobility. Space. With offices in 21 countries, we are committed to the scientists, engineers and technicians around the world.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 传感器 Sensors, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 测试和测量 Test & Measurement

产品介绍 / Products Description:

DPT1000A (Dynamic Parameters Tester 1000A) 功率器件动态参数测试系统
DPT1000A 功率器件动态测试系统由泰克科技领衔开发, 专门用于针对三代半导体功率器件的动态特性分析测试, 旨在解决客户在功率器件动态特性表征中常见的疑难问题, 包括如何设计高速工作的驱动电路, 如何适配多种芯片封装形式, 如何选择和连接探头进行信号测试, 如何优化和抑制测试过程中的噪声和干扰。帮助客户在研发设计和试产阶段, 快速评估器件性能, 更快应对市场需求改善产品性能。



MSO 5B 混合信号示波器

MSO 5B 示波器具有支持手指开合、滑动和缩放操作的创新触摸屏用户界面、业内较大的高分辨率显示器以及 4、6 或 8 条 FlexChannel™ 输入通道, 能够应对当前以及未来最严苛的应用挑战。它为性能、分析和整体用户体验设立了新的标准。

产品亮点

- 15.6 英寸容性触摸屏
- 12 位垂直分辨率
- 8 通道 FlexChannel 技术
- 高达 2GHz 带宽
- 高达 500M 点记录长度

MSO4B 混合信号示波器

多功能 4 系列 B MSO 具备应对复杂设计挑战的性能, 并且拥有直观的用户界面, 能够按照您的期望进行操作。凭借新升级的处理器系统, 该示波器能够更快地提供准确的测量结果, 同时拥有一系列出色的分析工具。

- 13.3 英寸高清 (1920x1080) 电容式触摸屏, 同类产品更优异的显示屏
- 多达 6 个 FlexChannel® 输入通道
- 原选配 Spectrum view 软件变为标配
- 12 位的垂直分辨率; 在高分辨率模式下可达 16 位
- 内置函数信号发生器 (可选)
- 支持 20 多种串行总线协议



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展位号 / Booth No: B15

特励达力科

Teledyne Lecroy



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网址 / Web: <https://www.teledynelecroy.com.cn/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 消费电子 Consumers Electronics, 航空航天 Aerospace, 医疗电子 Medical Electronics, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

特励达力科 (Teledyne Lecroy) 是高端示波器、协议分析仪和其他测试仪器的领先制造商, 可快速全面地验证电子系统的性能和合规性, 并进行复杂的调试分析。

1964 年成立以来, 公司一直专注于将强大的工具整合到创新产品中, 以提高“洞察时间”。更快的洞察时间使用户能够快速查找和修复复杂电子系统中的缺陷, 从而显著缩短产品的上市时间。

Teledyne Lecroy is a leading provider of oscilloscopes, protocol analyzers and related test and measurement solutions that enable companies across a wide range of industries to design and test electronic devices of all types.

Since our founding in 1964, we have focused on creating products that improve productivity by helping engineers resolve design issues faster and more effectively.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 测试和测量 Test & Measurement

产品介绍 / Products Description:

WaveRunner 8000HD:

WaveRunner8000HD 高精度示波器是业内唯一的 8 通道, 12 bit, 2 GHz 示波器。提供更多通道、更多灵活性, 利用 OscilloSYNC 可组成 16 通道系统, 且无模拟通道和数字通道的折中。而且可以提供最长 5Gpts 的存储深度, 可以捕获长时间发生的事件。

HDO 6000B:

HDO 6000B 高精度示波器, 具有 4 通道, 12bit, 1GHz 带宽, 采用力科 HDO 4096 技术, 始终保持 12bit 分辨率, 15.6 英寸更大显示屏捕捉每一个细节, 占地面积更小, 工作台空间更大, 同时最长可以提供 250 Mpts 的存储深度。



WaveRunner 8000HD:

The WaveRunner 8000HD High Definition Oscilloscope is the industry's only 8-channel, 12 bit, 2 GHz oscilloscope. Offering more channels and more flexibility, a 16-channel system can be formed using OscilloSYNC with no compromise between analog and digital channels. And with acquisition memory up to 5 Gpts, you can capture events over long periods of time.

HDO 6000B:

The HDO 6000B High Definition Oscilloscope features a 4-channel, 12-bit, 1GHz bandwidth with TeledyneLecroy's HDO 4096 technology for always-on 12-bit resolution, a larger 15.6-inch display that captures every detail, and a smaller footprint with more bench space, while providing up to 250 Mpts of acquisition memory.

展位号 / Booth No: G01

东芝电子元件（上海）有限公司

Toshiba Devices & Storage (Shanghai) Co., Ltd.

TOSHIBA

地址 / Add: 上海市黄浦区西藏中路 268 号来福士广场 10 楼

10F, Raffles City, No.268 Xizang Middle Road, Huangpu District, Shanghai, 200001, China

网址 / Web: <https://toshiba-semicon-storage.com>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电力供应 Power Supply, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

东芝电子元件及存储装置株式会社是先进的半导体和存储解决方案的领先供应商, 公司累积了半个多世纪的经验和创新, 为客户和合作伙伴提供分立半导体、系统 LSI 和 HDD 领域的杰出解决方案。

东芝电子元件及存储装置株式会社十分注重与客户的密切协作, 旨在促进价值共创, 共同开拓新市场, 期待为世界各地的人们建设更美好的未来并做出贡献。

东芝电子元件（上海）有限公司是东芝电子元件及存储装置株式会社在中国的全资子公司, 主要开展产品销售、技术支持、市场活动、品质售后等业务

Toshiba Electronic Devices & Storage Corporation, a leading supplier of advanced semiconductor and storage solutions, draws on over half a century of experience and innovation to offer customers and business partners outstanding discrete semiconductors, system LSIs and HDD products, and promote close collaboration with customers in the co-creation of value and new markets. Toshiba Electronic Devices & Storage Corporation looks forward to building and to contributing to a better future for people everywhere.

Toshiba Devices & Storage (Shanghai) Co., Ltd. is a wholly-owned subsidiary of Toshiba Electronic Devices & Storage Corporation in China, mainly engages in product sales, technical support, marketing activities, quality after-sales and other businesses.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

碳化硅模块 MG250YD2YMS3

- 产品所采用的关键技术:

MG250YD2YMS3 具有低导通损耗和 0.7V (典型值) 的低漏极 - 源极导通电压 (传感器)。

此外, 它还具有较低的开通和关断损耗, 分别为 14mJ (典型值) [3] 和 11mJ (典型值), 与典型的硅 (Si) IGBT 相比降低了约 90%。这些特性均有助于提高设备效率。

由于 MG250YD2YMS3 可实现较低的开关损耗, 用户可采用模块数量更少的两电平电路取代传统的三电平电路, 有助于设备的小型化。

- 产品主要面向的应用市场:

适用于光伏发电系统和储能系统等使用 DC 1500V 的应用。

IGBT 模块 ST2000GXH32

- 产品所采用的关键技术

“ST2000GXH32”, 这款晶体管采用沟槽型 IGBT 芯片和用于高压转换器的高速二极管芯片。

可抑制小反向恢复电流时的电压振荡, 因此可使用小型栅极驱动电阻 (RG(on)), 开通损耗

(Eon) 从 12.0J 下降至 8.4J (典型值), 大约降低 30%。此外, 改进后的阴极反向恢复峰值功率提高约 29%。同时, 由于提升了二极管耐高温性, ST2000GXH32 结温 (Tj) 从 125° C 提高到 150° C。

- 产品主要面向的应用市场

适用于直流电力传输、静态无功 (VAR) 补偿器、电机驱动逆变器和转换器等高压工业设备小型化和节能。



SiC module of MG250YD2YMS3

- Technology behind the product

The MG250YD2YMS3 features low conduction losses and a low drain-source on-voltage (sensor) of 0.7V (typical).

It also features low turn-on and turn-off losses of 14mJ (typical) [3] and 11mJ (typical), respectively, which is approximately 90% lower than typical silicon (Si) IGBTs. These features help improve device efficiency.

Because the MG250YD2YMS3 achieves lower switching losses, users can replace conventional three-level circuits with two-level circuits that require fewer modules, contributing to device miniaturization.

- Applications of the product

Suitable for applications using DC 1500V such as photovoltaic power generation systems and energy storage systems.

PPI of ST2000GXH32

- Technology behind the product

The "ST2000GXH32" transistor uses a trench-type IEGT chip and a high-speed diode chip for high-voltage converters.

Voltage oscillations at low reverse recovery currents can be suppressed, so a small gate drive resistor ($R_{G(on)}$) can be used, and the turn-on loss

(E_{on}) is reduced from 12.0J to 8.4J (typical value), which is about 30% lower. In addition, the improved cathode reverse recovery peak power is increased by about 29%. At the same time, due to the improvement of the high temperature resistance of the diode, the ST2000GXH32 junction temperature (T_j) is increased from 125 °C to 150 °C.

- Applications of the product

Suitable for miniaturization and energy saving of high voltage industrial equipment such as DC power transmission, static VAR (VAR) compensators, motor drive inverters and converters.

展位号 / Booth No: D80
清华大学电气化交通团队
Tsinghua University PEMC



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Room 2-302, West Main Building, Tsinghua University, Haidian District, Beijing, China

电话 / Tel: 13436678775

邮箱 / E-mail: xulie@mail.tsinghua.edu.cn

产品应用范围 / Scope of Applications:

航空航天 Aerospace, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

清华大学, 电机工程与应用电子技术系, 先进电能变换与电气化交通团队。

Center for Advanced Power Conversion and Electrical Transportation System (PEMC), Department of Electrical Engineering of Tsinghua University.

产品范围 / Topics:

伺服技术 / 执行器 Electrical Drives, 能源管理系统 Energy Management System

产品介绍 / Products Description:

航空电推进功率变换器, 航空起发控制器



Aviation Electric Propulsion Power Converter, Aviation Starter/Generator Power Converter

展位号 / Booth No: B14

忧芯科技（上海）有限公司

UniSiC Technology (Shanghai) Co., Ltd.



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Room 101, Building A, Lane 565, ShengXia Road, Zhangjiang Hi-Tech Park, Shanghai

邮箱 / E-mail: ctc@unisic.com

网址 / Web: <https://unisic-tech.com/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility

公司简介 / Company Profile:

忧芯科技 (UniSiC) 是功率半导体精准特性与可靠性测试解决方案创新领导者, 产品可覆盖 SiC、GaN 以及 Si 基功率半导体器件全部后道测试环节, 为功率半导体 IDM 企业、新能源车厂及 Tier1、功率器件设计与封装企业提供精准、可靠、高性价比的测试解决方案。

We are innovation leader in high precision measurement instruments and ATE solutions for power semiconductor devices. Our products cover all test of SiC, GaN, and Si power semiconductor devices, providing accurate, reliable, and cost-effective test system solutions for IDM enterprises, NEV manufacturers, Tier1s, and power device design and packaging enterprises.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 测试和测量 Test & Measurement

产品介绍 / Products Description:

SiC MOSFET 裸芯片 KGD (Known Good Die) 测试系统

- 支持 pogo-pin socket 技术, 支持真正的高压、大电流、高温的高应力筛选测试
- 采用高速运动、可拓展的 Handler 方案, UPH 1200, 测试站可自由拓展搭配
- 先进的三重保护方案, ~300ns 保护时间, 最大限度保护探针卡及系统



KGD (Known Good Die) Test System For SiC MOSFET

- Adopt pogo-pin socket technology, supporting real high voltage, high current, and high temperature KGD test
- High speed motion, scalable handler solution, UPH 1200, allowing free scalability and configuration of the test stations
- Advanced multi-protection, ~300ns protection time, maximizing protection for probes and system

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展位号 / Booth No: C46**友顺科技股份有限公司****UNISONIC TECHNOLOGIES CO.LTD.**

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网址 / Web: http://www.utc-ic.com/

产品应用范围 / Scope of Applications:

工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics

公司简介 / Company Profile:

UTC 集团成立于 1990 年, 专注致力于模拟 IC 及离散式组件 Discrete 研发、设计、晶圆制造、封装、测试及营销业务。为客户提供完整的解决方案及具价格竞争优势, 公司经营策略采 IDM 资源垂直整合, 期望能给予客户最佳选择, 并创造客户最大之经济效益。

IDM 采取主动的方式, 从产品的研发、设计、制造、封装、测试到品牌营销, 在每一个关键点都充分掌握其自主的能力, 以达到产能保障及技术自主, 充分展现企业竞争力。

UTC 具有完整模拟组件产品线, 产品以类比 IC 为主 (涵盖电源管理、电源驱动、运算放大器、比较器、数字功放、逻辑 IC 等), 分立器件为辅 (涵盖低压 MOS 管、高压 MOS 管、超结 MOS、IGBT 单管、快恢复二极管、肖特基二极管、TVS 二极管、稳压二极管、三极管、数位三极管、高频三极管、双向可控硅、单向可控硅等)。

公司始终专注并致力于半导体集成电路 IC 及分立器件的研发与销售, 产品广泛应用于电源管理设备、光伏逆变、储能、PLC、变频伺服、充电桩等工控领域、新能源汽车电子产品、PC 以及计算机外设产品、通讯设备、安防、家电、智能家居等消费性电子产品等众多领域。

UTC group was founded in 1990, focusing on the design, chip fabrication, packaging, testing, and marketing of analog ICs and discrete components. As an IDM (Integrated Device Manufacturer) supplier, the company's vertical resource integration aims to offer best total solution choices and to maximize price benefits for customers.

UTC takes a proactive approach, managing every critical point, including product research, design, manufacturing, packaging, testing, and brand marketing, to ensure steady production and technical advantage as UTC's core value.

UTC boasts a complete product line of analog components, primarily on analog ICs (covering power management ICs, driver circuits, operational amplifiers, comparators, digital amplifiers, logic ICs, etc.), with discrete semiconductor as supplementary (including low-voltage MOSFETs, high-voltage MOSFETs, super junction MOSFET, IGBT, FRD, Schottky diodes, TVS diodes, Zener diodes, BJT, digital transistors, high-frequency transistors, TRIAC, SCR, etc.).

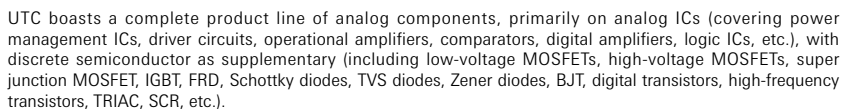
UTC is always dedicated to the development and business of IC and semiconductor discrete. Its products find widespread applications in various fields, including power management equipment, photovoltaic inverters, energy storage, PLCs, variable frequency servos, charging posts, industrial control, new energy automotive electronic products, PCs, computer peripherals, communication equipment, security, home appliances, smart homes, and many other consumer electronics sectors.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 伺服技术 / 执行器 Electrical Drives

产品介绍 / Products Description:

UTC 具有完整模拟组件产品线, 产品以类比 IC 为主 (涵盖电源管理、电源驱动、运算放大器、比较器、数字功放、逻辑 IC 等), 分立器件为辅 (涵盖低压 MOS 管、高压 MOS 管、超结 MOS、IGBT 单管、快恢复二极管、肖特基二极管、TVS 二极管、稳压二极管、三极管、数位三极管、高频三极管、双向可控硅、单向可控硅等)。



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展位号 / Booth No: E40**联合汽车电子有限公司****United Automotive Electronic Systems Co., Ltd.****UAES**

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产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

联合汽车电子有限公司 (简称 UAES) 成立于 1995 年, 是中联汽车电子有限公司和德国罗伯特·博世有限公司在中国的合资企业。公司拥有汽油发动机管理系统、变速箱控制系统、先进网联和电动化四大业务板块, 以及悬架控制、热管理系统、软件与服务、智能传感器四小业务。

公司总部位于上海市浦东新区, 在上海、无锡、西安、芜湖、柳州和太仓设有生产基地, 并在上海、重庆、芜湖、苏州和柳州设有技术中心。2023 年, 公司实现销售收入 370.88 亿元, 员工人数超过 10000 人。

凭借扎实的本地研发和生产能力, 公司致力于为国内各汽车厂商提供从零部件到系统的多样化、定制化完整解决方案, 以优质的产品和服务为汽车产业的高质量发展和转型做出积极贡献。

United Automotive Electronic Systems Co., Ltd. (UAES), a joint venture of Zhong-Lian Automotive Electronics Co., Ltd and Robert Bosch GmbH, was established in 1995. UAES has four major business: Engine Management System, Transmission Control System, Advanced Network and E-mobility, as well as four minor business: Suspension Control System, Thermal Management System, Software and Service and Smart Sensors.

With headquarter based in Shanghai, UAES operates production locations in Shanghai, Wuxi, Xi'an, Wuhu and Liuzhou, Taicang and technical center in Shanghai, Chongqing, Wuhu, Liuzhou and Suzhou. For 2023 the company sales reached 37.088 billion RMB and a headcount of over 10,000 by the end of the year.

With strong technical background and localized R&D and production capability, UAES is providing diversified and customized solutions from components to systems for various domestic customers, making positive contributions to the high-quality development and transformation of the automotive industry with superior products and services.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

功率模块 PMoC (Power Module On Cooler) 将直流电转换为交流电进行驱动电机。联合电子的功率模块实现自主封装, 产品覆盖 500V、800V 系统, 通过可拓展的设计, 峰值功率覆盖到 350kW;

先进的技术解决方案应用于汽车级设计的车载充电单元。效率高达 94.5%, 功率密度大于 4kW/L。

紧凑 & 高效率: 车载充电机、直流转换器和高压分线盒一体化集成, 使设计更为紧凑, 且减少接插件和电缆降低整车系统成本。引入先进的 SiC MOSFET 的应用, 降低体积、提高充电效率, 使客户更易于整车布置且降低整车的能耗



The power module PMoC (Power Module On Cooler) converts direct current to alternating current to drive the motor. The power module of United Electronics achieves independent packaging, covering 500V and 800V systems. Through expandable design, the peak power coverage reaches 350kW;

Application of advanced technology solutions and automotive grade design of onboard charging and distribution units. The efficiency is as high as 94.5%, and the power density is greater than 4kW/L.

Compact & High Efficiency: The car charger, DC converter, and high-voltage junction box are integrated into one, making the design more compact and reducing the cost of connectors and cables for the entire vehicle system. Introducing advanced SiC MOSFET applications, reducing volume, improving charging efficiency, making it easier for customers to arrange the entire vehicle and reducing energy consumption

展位号 / Booth No: D36

芯联集成电路制造股份有限公司

United Nova Technology Co., Ltd.



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网址 / Web: http://cn.unt-c.com

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

芯联集成成立于 2018 年, 2023 年在科创板上市。以“联结资源、汇聚智慧、持续创新, 鼎力支撑全球智慧型新能源革命”为愿景, 芯联集成面向车载、工控、高端消费三大应用市场, 致力于 MEMS、IGBT、SiC MOSFET、模拟 IC、MCU 的研发、生产和销售, 形成了完善的产品布局、雄厚的技术积累、多样化的工艺平台以及规模化的生产能力, 是国内稀缺的一站式芯片系统代工解决方案供应商。

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

车载紧凑型 250kw 塑封全桥 SiC 功率模组 MB2

1. 大面积塑封半桥焊接量产, 解决焊接空洞和塑封分层等难题
2. 高可靠性, 芯片双面烧结, 功率循环高达 15W 次,
3. 低杂散电感 4.5nH, 低导通电阻 2.1mohm, CLTC 效率 98.6%

双列直插式塑封超小型智能功率模块 DIP26

1. 采用微沟槽场截止 RC-IGBT 技术, 实现更高电流密度, 降低系统功耗
2. 内置自举二极管、限流电阻、UV、OCP 和 TSD 功能, 让设计更简单, 系统成本更低
3. 热阻低, IGBT 工作结温可提升至 175℃, 适用工业马达驱动和汽车热管理
4. 针对客户需求进行定制化开发

三电平铜底板灌封模块 HF5

UNT 采用改进的 HF5 封装, 提供定制化的 pin 针工艺及布局, 覆盖多样化的光伏和储能场景; 针对光伏和储能应用优化的 650V/700V/1000V/1200V IGBT, 实现超低动态损耗, 系统效率提升; 器件为多种恶劣环境设计, 经过全面可靠性考核, 可提高系统可靠性和鲁棒性, 易于系统扩容。

半桥型铜底板灌封模块 HB3

UNT 采用改进的 HB3 封装, 内置 1200V/1700V 超低动态损耗 IGBT, 适配光伏、储能和风电多种应用。器件满足 -50℃严寒工况, 卓越的防湿气、防硫化、防盐雾能力, 长期工作结温高达 175℃, 允许更高系统过载。改善的器件均流性能, 低杂感, 提高变频器系统可靠性和鲁棒性, 易于系统扩容。

晶圆: 提供功率器件, 功率 IC, MEMS 传感器和射频前端等核心芯片的代工服务, 客户应用涵盖消费, 工控和车规多个领域, 工艺平台能力业界领先。



展位号 / Booth No: C18
瓦克华磁性材料有限公司
VAC



地址 / Add: 上海市浦东新区张杨路 620 号 1906 室
R1906, No 620, Zhang yang Road, Pudong new district, Shanghai
电话 / Tel: +86-021-58319837
邮箱 / E-mail: peter.yang@vacuumschmelze.com
网址 / Web: http://www.vacuumschmelze.com

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

瓦克华磁性材料有限公司是全球领先的磁性材料及元器件厂商。成立于 1923 年, 总部位于德国哈瑙小镇, 在全球设立多个销售及生产工厂。主要产品有电流传感器, EMC 磁芯, 电感等。

Vacuumschmelze Magnetic Co., Ltd (VAC) is the global leading magnetic material/component vendor. Which was established in 1923 in Hanau Germany. VAC has many sales office/produce plants all over the world. Main product is Current sensor, EMC core, Inductor etc.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 散热管理 Thermal Management, 传感器 Sensors, 伺服技术 / 执行器 Electrical Drives, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 测试和测量 Test & Measurement

产品介绍 / Products Description:

电流互感器
EMC 磁芯 / 电感
软磁材料和部件
钴铁 镍铁材料

Current Sensor
EMC Core/Inductor
Soft magnetic Material and parts
Co-iron, Ni-Iron Material



VAC 软磁部件

最佳的部件性能和最苛刻的几何尺寸公差

- ▲ VAC 软磁部件:
 - ▶ 叠片电感器磁芯
 - ▶ 薄型磁芯切割片 (无氧铜箔光面磁芯)

VAC 汽车级及新能源汽车应用

随着电动汽车的高速发展, 车内将集成越来越多的复杂、高功率电子设备, 这导致了汽车电子行业对磁性器件及电感的需求变得更加旺盛。针对这样的趋势, VAC 汽车级产品都将在 VAC 的实验室内完成测试及优化来满足汽车电子市场的特殊需求。

- VAC 的产品涵盖了以下系列:
 - ▶ 共模电感及磁芯
 - ▶ 储能电感
 - ▶ 低频天线
 - ▶ 电流传感器

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展位号 / Booth No: F16

大众汽车（中国）科技有限公司天津分公司

Volkswagen China Technology Company Tianjin Branch

VOLKSWAGEN GROUP
CHINA TECHNOLOGY CO.

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地址 / Add: 天津经济技术开发区西区中南五街 49 号 - 研发楼

The development and analysis center, No.49, ZhongNanWu Street, TEDA West, Tianjin, China

邮箱 / E-mail: xiao.qin1@volkswagen-tech.com

网址 / Web: <https://www.volkswagengroupchina.com.cn/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility

公司简介 / Company Profile:

大众汽车集团（中国）技术有限公司（VCTC）成立于 2024 年 1 月 1 日，在中国设有合肥和天津两个办公地点，到 2024 年底将拥有约 3000 名研发和采购专家。

VCTC 是大众汽车在德国以外最大的技术中心，专注于智能、全互联电动汽车。作为大众汽车 " 在中国，为中国 " 战略的重要支柱，VCTC 旨在提升中国本土研发能力，加速大众汽车集团智能互联转型。

VCTC 天津分公司专注于电动驱动器（包括逆变器自主研发）、变速器和高压电池等零部件的研发、试制和测试验证。

Volkswagen Group China Technology Company (VCTC) was established on 1st Jan 2024, with 2 working locations in China – one in Hefei, another in Tianjin – will have around 3,000 R&D and purchasing experts by end of 2024.

VCTC is Volkswagen's biggest technology center outside Germany, focusing exclusively on intelligent, fully connected electric vehicles. As a key pillar of Volkswagen's "In China, for China" strategy, VCTC aims to enhance local R&D capabilities in China to speed up Volkswagen Group's transformation in Intelligent and Connected Vehicles Era.

VCTC Tianjin branch is focused on R&D, prototyping, testing and validation of components such as electric drives (including inverter in-house development), transmissions and high-voltage batteries.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

已量产电驱产品 APP310 介绍:

APP310 是源于 MEB 平台，采用三合一电动驱动技术，集电子控制、电机、变速箱于一体的产品，最大扭矩 / 性能为 310Nm/150kW。该电驱动系统满足 15 年的设计寿命要求，并经过 30 万公里的试验验证。目前配备于在上海和佛山生产的两款 ID 家族车型。



展位号 / Booth No: F18

瑞能半导体科技股份有限公司

WeEn Semiconductors Co., Ltd.



地址 / Add: 上海市静安区中兴路 1509 号金融街中心

Financial Street Center, 1509 Zhongxing Road, Jing'an District, Shanghai

电话 / Tel: 02160744300

邮箱 / E-mail: marcom@ween-semi.com

网址 / Web: https://www.ween-semi.com/cn

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

瑞能半导体科技股份有限公司, 源自 NXP, 成立于 2015 年。自诞生以来, 瑞能已走过逾 50 年辉煌历程。作为全球功率半导体行业的佼佼者, 瑞能专注于研发行业领先、广泛且深入的功率半导体产品组合, 公司产品包括碳化硅器件, 可控硅整流器和晶闸管, 快恢二极管, TVS, ESD, IGBT, 模块等。产品广泛应用于以家电为代表的消费电子、以通信电源为代表的工业制造、新能源及汽车等领域。瑞能始终以优化客户体验, 提升运营效率, 强化核心技术为目标, 推动全球智能制造行业的向前发展!

WeEn Semiconductor Technology Co., Ltd. originated from NXP and was founded in 2015. Since its birth, WeEn has gone through more than 50 years of brilliant history. As a leader in the global power semiconductor industry, WeEn has always focused on the development of industry-leading, broad and deep power semiconductor product portfolio, the company's main products mainly include silicon carbide devices, thyristors and thyristors, fast diodes, TVS, ESD, IGBT, modules and so on. The products are widely used in consumer electronics represented by home appliances, industrial manufacturing represented by communication power supply, new energy and automotive and other fields. With the goal of optimizing customer experience, improving operational efficiency and strengthening core technologies, WeEn has always promoted the development of the global intelligent manufacturing industry!

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

瑞能半导体推出一系列顶部散热型表面贴装碳化硅器件, 封装包括 TSPAK 和 TOLT, 产品覆盖 SiC 肖特基二极管与 MOSFET, 构成完整的产品阵容。

相较于传统底部散热型表贴功率器件, 顶部散热封装为客户提供更为灵活的热管理方案, 可以更大程度的挖掘 SiC 器件的性能潜力。基于顶部散热的封装设计, 可以使功率器件热量直接向散热器传递, 不必经过 PCB 的热过孔, 显著降低结到散热器热阻约 17%~19%, 帮助提升电路性能或减小功率器件选型降低成本。

同时, PCB 设计可以采用更灵活的电流路径规划, 取消热过孔或 PCB 散热覆铜面积后, 可以获得最小的电流回路面积和极低的线路寄生感抗, 使开关损耗和 EMI 辐射水平也降到最低, 缩短产品 EMC 调试时间和成本。

采用顶部散热封装, 不仅热性能可媲美广泛使用的、热性能稳定的 TO-247 等传统直插型封装, 还具有基于 SMD 的 PCB 组装方式, 同时避免依次安装绝缘衬套紧固螺丝, 实现高效制造流程的额外优势。

瑞能提供丰富的顶部散热产品选择和组合模式, 工规与车规产品均有规划。可以应用于 OBC, 充电桩模块, 服务器电源, 光伏逆变器等各种功率变换设备, 帮助产品设计提高功率密度, 并减少系统尺寸、重量和成本。

TOLT 封装提供 650V 20~70mΩ SiC MOSFET 以及 10~20A SiC SBD。

TSPAK 产品提供 650V~1200V, 12~150mΩ SiCMOSFET 以及 10~40A SiC SBD



展位号 / Booth No: F82

潍坊新兴电源散热器有限公司

Weifang xinxing power supply heatsink Co.,Ltd

WFXINXING

地址 / Add: 山东省潍坊市昌乐县经济开发区北三里街 689 号

689 Beisanli St, Changle county, Weifang, Shandong, China

电话 / Tel: +86 13761563043

邮箱 / E-mail: yuhaofeng@xinxing2010.com

网址 / Web: <http://www.wfxxdy.com>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

提供风冷和水冷散热解决方案, 拥有挤压、铲齿、冲压、真空钎焊、搅拌摩擦焊、CNC 加工、阳极氧化等加工工艺

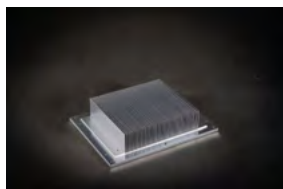
Providing thermal solutions with extrusion, skiving, stamping, vacuum brazing, friction stir welding, CNC machining and anodic oxidation in-house.

产品范围 / Topics:

散热管理 Thermal Management

产品介绍 / Products Description:

风冷水冷散热器



Heatsink and Liquid cold plate

展位号 / Booth No: G20

创意电子有限公司

Weltronics Component Limited



地址 / Add: 深圳市福田区福保街道福保社区市花路创凌通科技大厦 B 座五层 501-1

Room 501-1, 5th Floor, Block B, Chuanglingtong Technology Building, Shihua Road, Fubao Community, Fubao Street, Futian District, Shenzhen

电话 / Tel: +86-0755-8348 0330

邮箱 / E-mail: marketing@weltronics.com

网址 / Web: <http://www.weltronics.com>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 医疗电子 Medical Electronics, 通信 Communications, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

创意电子有限公司创立于1984年, 以代理销售欧美, 日本, 韩国等地区的高品质元器件为主。产品涵盖了电容、电阻、电感、各类传感器、开关、接插件、连接器、电位器、继电器、IC、晶振、二三极管、MOS管等产品, 广泛应用于通讯设备、家电、仪器仪表、绿色能源、照明、工控自动化设备、汽车电子、消费类电子、医疗器械等领域。

Weltronics Component Limited was established in 1984. We supply high-quality components from Japan, Korea, Europe, United States and other countries. Our products include Capacitors, resistors, inductors, sensors, switches, connectors, potentiometers, relays, IC, crystal oscillator, diode, triode, MOSFET and so on, which are widely used in communications, home appliances, instruments and meters, green power, lighting, industrial automation equipment, automotive, consumer products, medical equipment and others. We do not only provide the high-quality products, but also provide the most comprehensive solutions. Our business philosophy of aggressiveness, creation, innovation and advance, keeping provide the newest and the highest-quality products making us maintained high reputation in the industry.

产品范围 / Topics:

被动元件 Passive Components

产品介绍 / Products Description:

KOA 精密电阻 & CHEMI-CON (黑金刚) 铝电解电容

KOA 精密电阻



NCC 铝电解电容

混合电容



固态电容



贴片型



引线型



牛角型



KOA Precision resistor, AEC-Q200

CHEMI-CON Aluminum electrolytic capacitors with excellent long-term stability

展位号 / Booth No: A04

稳利达电源技术有限公司

Wenlida Power Supply Technology Co., Ltd



地址 / Add: 浙江省嘉兴市嘉善县惠民街道之江路 68 号

No.68 Zhijiang Road, Huimin Street, Jiashan County, Jiaxing City, Zhejiang Province

电话 / Tel: +86-89110555

邮箱 / E-mail: busbar@wld.net.cn

网址 / Web: https://www.wld.net.cn/

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply, 风能 Wind Energy

公司简介 / Company Profile:

稳利达电源技术有限公司（简称稳利达），是一家专业从事电源技术新领域的开发、设计、制造、销售及服务于一体的综合性高科技电气企业。

稳利达，公司注册资金 5000 万，在上海、浙江嘉善拥有近 10 万平方米的研发、生产、组装基地，在册员工达到近千名，其产业涵盖稳压电源 & AC/DC 电源稳压器、变压器、电抗器、叠层母排、钣金加工等，是中国稳压器产品的知名大型生产基地，是中国信息产业行业被认定为 YD/T 1270-2003《无触点补偿式交流稳压器》行业标准的起草单位。

Wenlida Power Supply Technology Co., LTD. (hereinafter referred to as Wenlida) is a comprehensive high-tech electrical enterprise specializing in the development, design, manufacturing, sales and service of new fields of power supply technology.

Wen Lida, the company registered capital of 50 million, in Shanghai, Zhejiang Jiashan has nearly 100,000 square meters of R & D, production, assembly base, registered employees reach nearly 1,000, its industry covers regulated power supply & AC/DC power voltage regulator, transformer, reactor, laminated busbar, sheet metal processing, is a well-known large production base of voltage regulator products in China. It is recognized as the drafting unit of YD/T 1270-2003 "Contactless compensation AC Regulator" industry standard in China's information industry.

产品范围 / Topics:

电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System

产品介绍 / Products Description:

叠层母排

叠层母排又称复合母排，层叠母排，层叠母线排，复合铜排，英文叫 Laminated Busbar，是一种多层复合结构连接排，可算是配电系统的高速公路。与传统的、笨重的、费时和麻烦的配线方法相比，使用复合母线排可以提供现代的、易于设计、安装快速和结构清晰的配电系统。



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展位号 / Booth No: C44**WISE INTEGRATION**

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地址 / Add: 87 RUE PHILEMON LAUGIER, 83400 HYERES, FRANCE

邮箱 / E-mail: rym.hamoumou@wise-integration.com

网址 / Web: <https://wise-integration.com>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 计算电子 Computing Electronics, 汽车工程 Automotive

公司简介 / Company Profile:

Wise-integration is a French fabless company founded in 2020, specializing in the advancement of power electronics through innovative GaN technology and digital control solutions. Leveraging its expertise, Wise-integration introduces a compelling synergy between its GaN device (WiseGan®) and a 32-bit, MCU-based, AC-DC digital controller (WiseWare®). This powerful combination enables the development of technologies facilitating chargers that are up to 3x smaller, 3x more efficient and 3x lighter, catering to power requirements from 30W to 7kW. Targeting a broad spectrum of markets, including consumer electronics, e-mobility, industrial applications, data centers and automotive sectors, Wise-integration is at the forefront of transforming power delivery with its cutting-edge components and digital control technologies.

The company is headquartered in France with a business office in Taipei and Hong Kong.

Wise Integration offers two products: WiseGan® and WiseWare®. WiseGan®, GaN Power Integrated Circuits that are designed to maximize the benefits of GaN technology, WiseWare®, on the other hand, is a digital controller MCU 32bits, optimized for GaN-based power supply architectures, offering simplified system design, reduced bill of materials, and improved power density and efficiency.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 开发软件 Development Software

产品介绍 / Products Description:

WiseGan®: GaN Power Integrated Circuits that are designed to maximize the benefits of GaN technology,

WiseWare®: is a digital controller MCU 32bits, optimized for GaN-based power supply architectures, offering simplified system design, reduced bill of materials, and improved power density and efficiency.



展位号 / Booth No: F70

武汉新瑞科电子科技有限公司

Wuhan New Rock Electronic Technology Co Ltd

SUNON®

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Wuhan City,Hubei Province

电话 / Tel: +86-027-87166022/87985502

邮箱 / E-mail: jingying03@newrock.com.cn

网址 / Web: https://newrock.com.cn/

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

SUNON 电机创立于 1980 年, 为全球散热风扇领导厂商, 40 多年来专注于马达核心技术的发明创新。SUNON 在马达、风扇、散热模块、通风与空气净化解决方案领域, 以不断创新、引领业界产品发展趋势, 在产业中备受推崇, 产品广泛应用于 5G 设备、IOT、医疗、家电、电竞、汽车、工业、冷冻冷藏设备、监控服务、便携式产品和绿色建筑通风等产业。

武汉新瑞科成立于 2000 年, 为 SUNON 最大授权代理商, 最大现货库存商。为客户提供基于 SUNON 产品的优质散热解决方案!

Sunonwealth established the brand of SUNON in 1980. It is the world's leading manufacturer of cooling fans, and has focused on the invention and innovation of core motor technologies for over than 40 years. SUNON is renowned for its continuous innovation in motors fans, cooling modules, ventilation and air purification solutions, setting industry trends and earning high regard across various sectors. Its products are extensively used in applications such as 5G equipment, IoT, medical devices, home appliances, gaming, automotive, industrial, refrigeration, surveillance, portable devices, and green building ventilation.

Wuhan Newrock was established in 2000, It is the largest authorized distributor and stockist for SUNON. The company provides high-quality heat dissipation solutions based on SUNON products to meet diverse customer needs.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 传感器 Sensors

产品介绍 / Products Description:

武汉新瑞科代理 SUNON 风扇、LEM 传感器、南瑞 IGBT 模块; 经营英飞凌、富士 IGBT 模块等电力电子器件。武汉新瑞科在电力电子行业深耕近 20 余年, 服务超过 5000 家客户, 是电力电子行业内客户优选的综合服务商!



Wuhan newrock agent SUNON fan, LEM transducer, Nanrui IGBT module; Operating Infineon module, Fuji IGBT modules and other power electronics devices. Wuhan newrock has been in the power electronics industry for nearly 20 years, serving more than 5,000 customers, and is the preferred comprehensive service provider for customers in the power electronic industry!

展位号 / Booth No: H20

武汉普赛斯仪表有限公司

Wuhan Precise Instrument Co., Ltd.



地址 / Add: 武汉市东湖新技术开发区光谷三路 777 号创星汇科技园 2 号楼 4 楼

4th Floor, Bld 6, No.6 Bonded Logistics Park, No. 777 Guanggu 3rd Road, Donghu New Technology Development Zone, Wuhan, China.

电话 / Tel: 18162556018

邮箱 / E-mail: sales3@whprecise.com

网址 / Web: <https://www.whpsins.com/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply

公司简介 / Company Profile:

武汉普赛斯仪表有限公司以源表为核心产品, 专注于半导体电性能测试设备的开发、生产与销售。

聚焦第三代半导体领域高端测试设备的国产化, 武汉普赛斯仪表积极打造对标进口、国内领先的实验与测试平台。掌握多项电性能测试核心专利技术, 构建了高精度台式数字源表、脉冲式源表、窄脉冲电流源、脉冲恒压源、集成插卡式源表、高精度的超大电流源、高精度脉冲大电流源、高精度高压电源、数据采集卡等系列产品, 电流覆盖 pA 至 kA, 电压覆盖 μV 至 kV。基于自主核心仪表产品, 我司创新打造了半导体参数分析仪、功率器件静态参数测试系统、大功率激光器老化测试系统、miniLED 测试系统、电流传感器测试系统等测试平台, 以高效率、高精度、低成本为核心, 实现市场应用的集成创新。

Wuhan PRECISE Instrument Co., Ltd. is a wholly-owned subsidiary of Wuhan PRECISE Electronic Technology Co., Ltd. It has been focusing on the development, production and sales of electrical performance test instruments for semiconductors, and is committed to meeting the requirements of the semiconductor field from materials, wafers to devices. The demand for domestic substitution of scientific instruments for testing.

Based on the technical platform advantages of PRECISE Electronics' leading optical and photoelectric technology, weak signal processing and anti-interference technology, high-speed digital signal processing, core algorithms and system integration, the company took the lead in independently developing high-precision desktop digital source measure units and pulse source measure meters, narrow pulse current sources, integrated plug-in source measure unit, high-precision ultra-large current sources, high-precision high-voltage power supplies, data acquisition cards and other domestic electrical performance test instruments, as well as mini LED test systems, current sensor test systems, power devices Static parameter test system, etc. Products are widely used in the analysis of new semiconductor device materials, semiconductor discrete device testing, integrated circuit, etc. Testing, college teaching and training platforms and other applications; provide customers with modular hardware, efficient drivers and efficient algorithm software combinations to help users build custom solutions, while meeting the industry's requirements for testing efficiency, testing accuracy, supply chain security and scale challenge.

产品范围 / Topics:

测试和测量 Test & Measurement

产品介绍 / Products Description:

1、E 系列高压源测单元

- 高压建立时间为 5ms, 减少待测物加电时间的发热;
- 单台最大 3500V, 最大电流 100mA, 最大功率 350W, 可拓展至 10kV;
- 恒压或恒流输出, 同步测试电压或者电流;
- 0.1% 的精度, 高压下 nA 级别的漏电流测试;
- 支持线性、对数及用户自定义扫描;
- 恒压限流, 限流避免炸管

2、HCPL100 高电流脉冲电源

- 单台 5A-1000A 的电流输出, 且支持多台并联输出, 电流可到 6000A;
- 50 μs -500 μs 的可调电流脉宽, 上升边沿 15 μs (典型时间), 减少待测物在测试过程中的发热, 测试结果更加准确;
- 两路电压同步采集, 测量电压在 0-18V, 可支持半桥模块的上下管同时测试, 提高测试效率;
- 支持电流输出极性反转, 测试 $V_{ce(sat)}$ 和 V_f 只需发送相应指令, 无需在外部加额外的切换开关;
- 设备的输出和测量精度为 0.1%;
- 支持自动采样, 无需外接采集卡

3. P 系列高精度台式脉冲源表

- 5 寸触摸显示屏全图形化操作
- 范围广，高至 300V 低至 1pA
- 最小脉冲宽度 200 μ S
- 准确度为 0.1%
- 四象限工作（源和阱）
- 丰富的扫描模式
- 支持 USB 存储，一键导出报告
- 多种通信接口，RS-232/GPIB/LAN



1. E Series High Voltage Source Measure Tester HV Programmable Power Supply

- The high voltage establishment time is 5ms, which reduces the heat generation of the object under test when it is powered on.
- The maximum single unit is 3500V, the maximum current is 100mA, and the maximum power is 350W; it can be expanded to 10kV.
- Constant voltage or constant current output, synchronous test voltage or current.
- 0.1% accuracy, nA level leakage current test under high voltage.
- Supports linear, logarithmic and customized scan.
- Constant pressure and current limiting, limiting the flow to avoid pipe explosion.

2. HCPL100 High Current Source Pulsed Power Supply For Schottky Diode Rectifier Bridge IPM Module Test

- The current output of a single unit is 5A-1000A, and it supports multiple parallel outputs, and the current can reach 6000A;
- The adjustable current pulse width of 50 μ s-500 μ s, with a rising edge of 15 μ s (typical time), reduces the heating of the object under test during the test, and the test results are more accurate;
- Two voltages are collected synchronously, and the measured voltage is 0-18V, which can support the simultaneous testing of the upper and lower tubes of the half-bridge module to improve test efficiency;
- Supports current output polarity reversal. To test $V_{ce(sat)}$ and V_{fz} , you only need to send corresponding instructions without adding additional external switches;
- The output and measurement accuracy of the device is 0.1%;
- Supports automatic sampling, no need for external capture card.

3. P Series High Precision Pulsed Source Measure Unit SMU Meter

- Up to 300V and min to 1pA, max output power in DC mode is 30W, and Max output power in pulse mode is 300W
- Max pulse output current up to 10A
- Min pulse width 200 μ S
- Supports front and rear panels, 2/4 wires, and UARD protection
- Standard SCPI instruction sets for customer secondary development
- Easy to build semiconductor electrical performance testing scenarios

展位号 / Booth No: G39

武汉中科创新技术股份有限公司

Wuhan Zhongke Innovation Technology Co., Ltd



地址 / Add: 湖北省武汉市东湖新技术开发区光谷七路 126 号

No. 126 Guanggu 7th Road, Donghu New Technology Development Zone, Wuhan City, Hubei Province

邮箱 / E-mail: 919476500@qq.com

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 汽车工程 Automotive, 风能 Wind Energy

公司简介 / Company Profile:

武汉中科创新科技股份有限公司是一家高新技术企业，主要研究方向在超声波检测设备，完全自主研发，自主生产，承担过国家科技部科学仪器重大专项并顺利结题。

Wuhan Zhongke Innovation Technology Co., Ltd. is a high-tech enterprise with a main research focus on ultrasonic testing equipment. It is fully independent in research and development, independent in production, and has undertaken major scientific instrument projects of the Ministry of Science and Technology of China, which have been successfully completed.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Managemen, 能源
储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 测试和测量 Test &
Measurement

产品介绍 / Products Description:

超声显微检测系统, 桌面水浸 C 扫描检测仪, 空气耦合超声检测仪

Ultrasonic microscopy detection system, desktop water immersion C-scan detector, air coupled ultrasonic detector

H5M系列超声显微检测系统



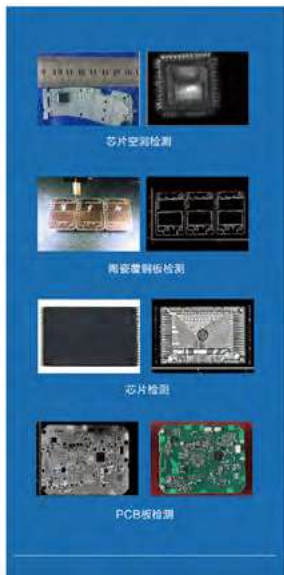
■ 检测对象

[illegible]

■ 解决方案

- [illegible]

应用

[illegible]

■ 技术指标

收音频率	全频段
频率	140~160MHz
接收频率范围	0.2~15MHz
灵敏度	0.2, 0.5, 1.0, 2.0, 4.0dB, 12dB时灵敏度提高2dB
阻抗	50Ω, 500Ω
发射频率	方波 (电压 50V ~ 250V, 额定功率 10W ~ 25W)
收发方式	射、空、正、单、变、变
频率	100MHz~5GHz (多频可用)
接收带宽	512~4096
频率范围	30Hz ~ 27500Hz, 自动扫描

■ 技术参数

[illegible]

HSD-AIR-1空气耦合超声检测仪



产品特点

HSO-AIR(空气耦合超声检测)是一款非接触式的超声波无损检测设备,主要用于航空,船舶,汽车,军工等行业。对各类型航空复合材料,锂电池,含水或气孔,纤维状材料有相对较好的检测效果。对损伤或异物侵入的复合材料,也有不错的检测效果。

適用領域:

1. 无需耦合剂的非接触式超声波检测, 检测距离几厘米到几十厘米不等, 干净利落。
2. 可检测较薄, 粗糙或者曲面的工件, 受检测面的影响小。
3. 可承受一定的角, 低温材料的检测。
4. 具备 A 扫, B 扫, C 扫成像。
5. 可根据被扫工件的尺寸选配相应的多通道自动化扫查装置。
6. 自动缺陷捕捉, 尺寸测量功能。

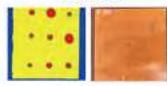
技术参数

[illegible]

复合材料的类型



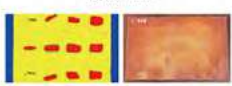
鹽電池的檢測



复合材料检测



复合材料检测



复合材料检测

超声波点焊检测仪 HS Spot30



产品特点:

全新相控阵超声发射接收技术, 点阵式超声实时成像技术, 实时显示焊缝的内部图像, 高信頼性, 易操作性, 便携性, 自动估计点焊质量指标, 检测前自动设置与自动校准功能, 大容量锂离子聚合物电池。

通用处理:

产品详细特点

HS Spot300 是一款汽车点焊专用超声波探伤仪。仪器体积小、重量轻、结构紧凑、操作简单、硬件系统集成度高、外形尺寸小巧、便于携带。支持高速网络传输，实时上传检测数据。超声波设备依便携式小容量电源供电；主机工作，利于现场及时开展工作。探头与工件的接触面宽。它能保证探头和点焊表面的弧度完美地接触，以确保检测精度。能够在编制检测计划时，添加图片或视频。方便执行和跟踪任务先编制的检测计划。



9×9矩阵 61个独立晶片 中心频率15MHz

技术参数

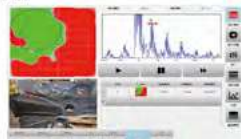
参数分类	参数选项	标准性能描述
PA 配置	接收 / 发射	13/22.5/55/90 瓦
	射频输出功率	50W-100W
脉冲宽度调制	发射脉冲宽度	100ns-500ns 可调
	脉冲上升时间	< 1ns
	发射频率范围	200Hz-100KHz
	脉冲宽度	50ns/2.5ns
接收端	接收范围	300Hz/100KHz (模拟) +5dBm/0dBm (数字)
	灵敏度	0.33dBm/2.33dBm
数据速率	采样率	120MHz/250Hz
	精度	分辨率: 正负, 绝对, 量程
扫描与显示	扫描类型	线性 / 非线性
	显示模式	AM/FM/3C

应用效果

1. 检测流程



2. 基于win10平台实时显示的软件界面。集成整车数据编程软件和设置、编辑系统, A扫描自动捕捉功能和自动评估功能, 以及自动跟踪功能。



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展位号 / Booth No: F24

伍尔特电子控制系统（沈阳）有限公司

Wurth Elektronik ICS (Shenyang) Co., Ltd.

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地址 / Add: 辽宁省沈阳市大东区建设路 119-3 号

No. 119-3, Jianshe Road, Dadong District, Shenyang City, Liaoning Province

电话 / Tel: +86 18621987740

邮箱 / E-mail: ics.china@we-online.com

网址 / Web: <https://www.we-online.com/en/special/country/china>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives
风能 Wind Energy

公司简介 / Company Profile:

Wurth Elektronik ICS, 专注于为全球客户提供卓越的电力分配解决方案。致力于研发、生产和销售信号与电力分配领域的电子元器件与系统。

我们的拳头产品——导流端子（Powerelements），更是 40 余年匠心独运的结晶。凭借深厚的行业积淀和专业的项目咨询团队，我们为客户提供量身定制化的解决方案，赢得了众多知名制造商的信赖与赞誉。

Wurth Elektronik ICS 总部位于德国尼登哈尔（Niedernhall）。如今，我们在中国沈阳设立了分公司。更进一步，服务中国！

Wurth Elektronik ICS is a supplier of electromechanical and electronic components and systems for signal and power distribution. These include among others power distribution units for high and low voltage applications and power supply terminals, known as Powerelements.

As the inventor of the Powerelement, we have been developing, processing and selling them for 40 years. We combine this experience with extensive expertise and personalised project advice.

Customers can choose between standard and customised Powerelements. Customised Powerelements are individually modified to your requirements - so we have Powerelement solutions for many applications.

We also use our Powerelements in a the design of power distribution units, particularly for high voltage applications. They allow various connectors, fuses, relays or sensors to be connected to the PCB.

The main customers of Wurth Elektronik ICS include well-known manufacturers of construction and agricultural machinery, as well as commercial vehicles. Sectors such as industrial technology or renewable energies also benefit from products and services provided by ICS. Our headquarters are located in Niedernhall, Germany. Since October 2023, the company has been represented by a subsidiary in Shenyang, China.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 配置和子系统 Assemblies and Subsystems

产品介绍 / Products Description:

导流端子

Wurth Elektronik ICS 的明星产品——导流端子，以其坚固耐用、性能卓越而著称。其产品线已拥有超过 3000 种型号，种类之丰富，世界领先。我们严格遵循国际标准和环保要求，拥有 RoHS 和 REACH 认证，为您提供高效、安全的电力分配解决方案。

无铅导流端子

Wurth Elektronik ICS 利用无铅黄铜技术，推出了一系列无铅解决方案。访问我们的官方网站 www.powerelement.com，获取更多标准产品信息。此外，我们还为客户提供定制化的无铅产品，以满足您的特定需求，助您实现更高的业务价值。



Powerelements

As the inventor of the Powerelements, we have been providing these power supply elements for PCBs for over 40 years. Our Powerelement portfolio comprises more than 3,000 variants, making it the largest in the world. Robust, reliable and used millions of times, our high current contacts have outstanding electrical and mechanical properties and a wide range of applications - from power supply to electrical and mechanical connections. The Powerelements from Wurth Elektronik ICS comply with current standards and are RoHS and REACH compliant.

LF Powerelements – Lead-free High Current Contacts for PCBs

With LF Powerelements, Wurth Elektronik ICS has launched a comprehensive range of lead-free solutions on the market using lead-free brass. A large number of new standard are now available on the online platform www.powerelement.com. In addition to its standard portfolio, Wurth Elektronik ICS also offers customers the option of developing customised lead-free versions to meet their specific criteria. In this way, the company implements legal environmental requirements ahead of time and creates investment and design security for its customers.

展位号 / Booth No: F20

无锡宸瑞新能源科技有限公司

Wuxi CRE New Energy Technology Co., Ltd.



地址 / Add: 中国江苏省无锡市梁溪区南湖大道 789 号 D 座

Building D, No.789 NanHu Avenue, Liangxi District, Wuxi City, Jiangsu Province, China

电话 / Tel: 0510-81028808

邮箱 / E-mail: cre@cre-elec.com

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 风能 Wind Energy

公司简介 / Company Profile:

无锡宸瑞新能源科技有限公司, 是一家专业生产功率型薄膜电容的高新技术企业, 专注于电力电子技术应用领域。公司致力于工业节能环保、电力系统、轨道交通 / 电动汽车、新能源等市场领域的应用与开发, 为客户提供可靠的电容器解决方案。产品主要应用于 DC-Link、IGBT 吸收保护、高压谐振、耦合以及 AC 滤波等场合, 为逆变器、变流器、变频器、特种电源、电能质量管理、电动汽车等行业提供可靠的产品应用。

Wuxi CRE New Energy Technology Co., Ltd is a leading manufacturer and designer of film capacitors with over 40 years of experience. We specialize in providing high-power energy conversion solutions for industrial applications, including energy storage, pulse, DC-link, IGBT absorption protection, high voltage resonance, coupling, and AC filtering.

With an impressive 39 patents for capacitors design and production, our success stories span various sectors such as new energy, rail traction, automotive, medical and healthcare, variable frequency drives, uninterruptible power supply, high-power transformers, power distribution, and transmission.

As a major contributor to the advancement of power progress, we eagerly seek strategic partnerships worldwide. We are excited to collaborate with like-minded companies to drive further innovation and propel the power revolution forward.

产品范围 / Topics:

无源器件 Passive Components

产品介绍 / Products Description:

直流支撑电容器、交流滤波电容器、吸收电容器



DC-Link Capacitor, AC filter capacitor, snubber capacitor

展位号 / Booth No: C36

无锡市豫达换热器有限公司

Wuxi Yuda Heat-exchanger Co.,Ltd



地址 / Add: 无锡市滨湖区马山常康路 28 号 -1

No. 28-1 Changkang Road, Mashan, Binhu District, Wuxi City

电话 / Tel: 86-510-85992271

邮箱 / E-mail: gf.zhao@ydhqr.com

网址 / Web: http://www.ydhqr.com/

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

无锡市豫达换热器有限公司成立于 2006 年, 是专业研发、设计、制造铝制板翅式换热器生产厂家。公司现有员工 258 人, 工程技术人员 10 人, 产品质量人员 11 人。产品广泛应用于风力发电、电力电子、铁路机车、空压机、油气勘探、工程机械、农林机械、液压系统、柴油发动机等行业。多年来公司致力于提升技术开发能力, 不断拓展产品应用领域和国内外市场。

近年来, 公司出口额逐年稳步增长; 同时逐渐成为风电行业换热器的领导者。深受国内外客户的一致好评。质量, 创新, 守诺是公司壮大的源泉。

公司已通过 ISO9001 ISO14001 ISO45001 IATF16949 EN15085 认证, 产品已通过 CE 认证。我们将为您提供完美的换热方案和产品。

Established in 2006, Wuxi Yuda Heat Exchanger Co., Ltd. is a professional manufacturer of aluminum plate-fin heat exchangers. The company has 258 employees, 10 engineering and technical personnel, product quality personnel 11 people. Products are widely used in wind power, power electronics, railway locomotives, air compressor, oil and gas exploration, engineering machinery, agricultural and forestry machinery, hydraulic systems, diesel engines and other industries. Over the years, the company is committed to improving technology development capabilities, and constantly expand product application fields and domestic and foreign markets. In recent years, the export volume of the company has increased steadily year by year, at the same time, the company has gradually become the leader of heat exchangers in the wind power industry. By domestic and foreign customers alike. Quality, innovation and keeping promises are the source of the company's growth. The company has passed ISO9001 ISO14001 ISO45001 IATF16949 EN15085 certification, product has passed CE certification. We will provide you with the perfect heat exchange program and products.

产品范围 / Topics:

散热管理 Thermal Management, 配置和子系统 Assemblies and Subsystems

产品介绍 / Products Description:

- 1、铝制板翅式换热器
- 2、水风换热器
- 3、水冷系统集成换热装置



- 1, aluminum plate-fin heat exchanger
- 2, water-air heat exchanger
- 3, water-cooling system integrated heat exchanger

展位号 / Booth No: A13

西安明科微电子材料有限公司

XI'AN MIQAM MICROELECTRONICS MATERIALS CO.,LTD



地址 / Add: 西安市航天基地东长安街 888 号利科产业园

LED Industrial Park, 888, East Chang An Str., Aerospace Base, Xi'an, Shaanxi Province, China.

电话 / Tel: +86 -29-84190686

邮箱 / E-mail: sales@al-sic.com

网址 / Web: http://al-sic.com/

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 电机工程 Electrical Engineering, 通信 Communications, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

西安明科微电子材料有限公司是以研制, 生产和销售第三代微电子封装材料铝碳化硅, 铝硅及其系列产品为主营业务的高科技企业, 具有中国第一条规模化生产铝基复合材料的生产线。

Xi'an MIQAM Microelectronics Materials Co., Ltd. is a private high-tech enterprise; our main business is specialized in developing and producing new generation packaging materials for power semiconductors and power electronics. Our main products are AlSiC, AlSi and their series. MIQAM is the biggest supplier of these materials in China.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage

产品介绍 / Products Description:

AlSiC 基板, AlSiC 散热片, AlSiC 结构件

AlSiC baseplate, AlSiC radiation fin.



展位号 / Booth No: H31

厦门芯达茂微电子有限公司

Xiamen Xinergy Microelectronics Co., Ltd.



地址 / Add: 福建省厦门市集美区金辉西路厦门势拓稀土永磁电机产业园 7 号楼芯达茂

No. 7 Bldg., Xiamen CITTO Rare-earth Permanent Magnet Motor Industrial Park, JinHui West Road, Xiamen, Fujian

邮箱 / E-mail: bailf@xindamao.com.cn

网址 / Web: http://www.xindamao.com.cn/

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

厦门芯达茂微电子有限公司成立于 2018 年 2 月, 总部位于厦门势拓稀土永磁电机产业园, 由恒远国际、创合鑫材基金、芯筑投资共同发起投资, 是一家专业的半导体芯片及方案设计公司。芯达茂以对标国际一流品牌、实现国产替代为己任, 致力于第三代半导体及各类功率器件的研发、设计和应用。

Xiamen Xinergy Microelectronics Co., Ltd. was founded in Feb. 2018. The Investors include Heng Yuan Int'l Group, ChuangHe XinCai Fund and Hsinzhu Investment. Located in Xiamen, it is a design house dedicated to products of power semiconductor and solutions.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

650V IGBT 单管产品 (Discrete Product)

采用先进的微沟槽结构 + 场截止技术 (Trench+FS), 提升芯片功率密度, 并在开关频率和开关损耗上获得最佳平衡。适用于 UPS、变频家电和太阳能逆变器等领域。



1200V IGBT 单管产品 (Discrete Product)

采用沟槽结构 + 场截止技术 (Trench+FS)。晶圆元胞区和终端场板的特殊设计, 实现 IGBT 具有高可靠性和电参数一致性优的特点。适用于工业变频器、伺服电机和 UPS 电源, 逆变器等领域。

PIM

沟槽结构的场截止技术 (Trench+FS)。内部集成整流、制动斩波器和温度传感器 (NTC), 节约系统成本。适用于工业变频器、伺服电机和 UPS 等领域。模块采用标准封装, 产品在严酷的环境下具有稳定的一致性和高可靠性。



IPM

内置三相全桥高压栅极驱动和 6 个低损耗沟道栅 - 场截止 IGBT。内部集成增强型滤波器改善 HVIC 内部模块的输入 / 输出脉冲的一致性并有助于滤除尖峰干扰信号和窄脉冲。

650V IGBT Discrete Product

Adopting advanced micro trench structure and field-stop technology (Trench and FS), the chip power density is improved. Optimal balance is achieved between switching frequency and switching loss. The products are suitable for applications such as UPS, variable frequency household appliances and PV inverters.

1200V IGBT Discrete Product

Trench structure and field stop technology (trench and FS) are adopted. The special design of the unit cell and the termination results in IGBT with characteristics of high reliability and excellent consistency. They are suitable for industrial frequency converters, servo motors, UPS power supplies, inverters and other fields.

PIM

Trench and FS field stop technology are adopted for IGBT. Integrated with rectifier, brake chopper, and temperature sensor (NTC), it enables system cost saving and is suitable for industrial frequency converters, servo motors, UPS and other fields. The module adopts standard packaging and has stable consistency and high reliability in harsh environments.

IPM

Built in three-phase full bridge with high-voltage gate drive and six low loss field stop IGBTs, the IPM is also integrated with an enhanced filter which improves the consistency of input/output pulses in the HVIC and helps to filter out spike interference signals and narrow pulses.

展位号 / Booth No: G26

西安智盈电气科技有限公司

Xi'an Zhiying Electric Technology Co., LTD



地址 / Add: 陕西省西安市西咸新区沣东新城中兴深蓝科技产业园 B2-2303 室

Room B2-2303, Zhongxing Shenlan Science and Technology Industrial Park, Fengdong New Town,
Xi Xian New Area, Xi'an city, Shaanxi Province, China

电话 / Tel: +86-029-15319792496

邮箱 / E-mail: 13289210189@163.com

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 轨道交通 Rail + Traction, 电力供应 Power Supply, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive

公司简介 / Company Profile:

西安智盈电气科技有限公司是陕西省政府重点支持的国家高新技术企业, 获得陕西省软件企业认证, 获得有效知识产权 13 项, 其中授权实用新型专利 4 件, 软件著作权 9 件, 通过了 ISO9001 质量管理体系认证及国家高新技术企业认证, 并获得国家认证的创新型中小企业, 科技型中心企业, 建设有现代化标准厂房和完善的基础设施。公司主要设备有 IGBT 静态参数测试设备、浪涌电流测试设备、雪崩能量测试设备、IGCT 动态参数测试、宽禁带产品的测试等。

Xi'an electric technology co., LTD is the shaanxi provincial government key support of national high-tech enterprises, shaanxi software enterprises, 13 effective intellectual property rights, including 4 authorized utility model patents, soft copyright 9, passed the ISO9001 quality management system certification and national high-tech enterprise certification, and obtain the national certification of innovative small and medium-sized enterprises, science and technology center enterprises, the construction of modern standard workshop and perfect infrastructure. The main equipment of the company includes IGBT static parameter test equipment, surge current test equipment, avalanche energy test equipment, IGCT dynamic parameter test, wide band products test, etc.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 测试和测量 Test & Measurement, 开发软件 Development Software, 信息与服务 Information & Services

产品介绍 / Products Description:

1、IGBT 静态参数测试设备: 针对轨道交通的 IGBT 模组的静态参数测试需求而研发的智能测试系统, 自动化程度高, 按照操作人员设定的程序自动工作, 测试方法灵活, 可测试单个单元和多单元的模块, 系统安全稳定, 整体采用轮式机柜集成测试, 操作简单, 移动方便等特点;

2、10uS-10mS 浪涌电流测试设备: 是二极管等相关半导体器件测试的重要检测设备, 本系统通过电容电感值谐振放电产生的电流波, 结合上位机测试软件, 最后输出测试要求的电流值。

3、雪崩能量测试设备: 是专门设计测试 IGBT、二极管、SIC 系列 MOS 管的测试设备, 该测试系统主要用于 IGBT、FRD、MOS、器件单脉冲及重复脉冲雪崩能量测试, 设备可满足各种封装形式的功率模块测试需求, 并预留电压电流扩展功能。



1、 IGBT static parameter test equipment: in view of the rail transit IGBT module of static parameter test requirements and research and development of intelligent test system, high degree of automation, according to the operator set program automatically, flexible test method, can test a single unit and unit module, system security and stability, the whole wheeled cabinet integrated test, simple operation, convenient movement, etc;

2、 10 uS-10 mS surge current test equipment: it is an important testing equipment for diode and other related semiconductor devices. The system uses the current wave generated by the capacitive inductive resonance discharge, combined with the upper computer test software, and finally outputs the current value required for the test.

3、 Avalanche energy test equipment: is specially designed to test IGBT, diode, SIC series MOS pipe test equipment, the test system is mainly used for IGBT, FRD, MOS, device single pulse and repeated pulse avalanche energy test, equipment can meet the requirements of various packaging forms of power module test requirements, and reserved voltage and current expansion function.

展位号 / Booth No: B16

鑫业诚智能装备 (无锡) 有限公司

XYC-TEK INTELLIGENT EQUIPMENT (WUXI) CO.,LTD



地址 / Add: 无锡市锡山区安镇街道先锋中路 6 号中国电子 (无锡) 数字芯谷 5#-B101

No. 6 Xianfeng Middle Road, Anzhen Street, Xishan District, Wuxi City, China Electronics (Wuxi)

Digital Chip Valley 5 # - B101

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邮箱 / E-mail: ada@xyc-tek.com

网址 / Web: <http://www.lighting7.com/index.html>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

鑫业诚智能装备 (无锡) 有限公司 (原名: 南京鑫业诚机器人科技有限公司, 于 2016 年 11 月 18 日成立于南京江北新区), 2023 年 06 月 12 日迁址到无锡市锡东商务区先锋中路数字芯谷 5 号楼, 并正式更名为鑫业诚智能装备 (无锡) 有限公司。公司是一家以精密光学检测, 精密激光加工为主的高端智能装备公司, 服务于半导体、新型显示、新能源等行业的智能制造, 主营产品有 AOI 检测设备、影像测量仪、激光标记设备、激光加工设备。公司注重光学应用及其核心技术, 整合光学工艺、软件算法、精密机械与运动控制, 为客户提供完整解决方案。

XYC-TEK INTELLIGENT EQUIPMENT WUXI CO.,LTD established on September 9th 2019, located in Nano City, Wuxi Industrial Park. We are a high-end intelligent equipment company focusing on precision optical inspection and precision laser processing. Our main products are precision video measurement system, 2D AOI inspection, 3D AOI inspection, precision laser marking equipment, etc. serving the intelligent manufacturing of semiconductors, circuit boards, new displays, new energy and other industries. The company focuses on optical applications with its core technologies, integrating optical technology, image algorithms, precision machinery and motion control, to provide customers with complete solutions.

产品范围 / Topics:

测试和测量 Test & Measurement, 开发软件 Development Software, 信息与服务 Information & Services

产品介绍 / Products Description:

1、IGBT 3D AOI: 多种检测手段结合的光学系统, 实现高精度高速采图

光栅投影图像采集, 还原 3D 立体结构

自研 AI+ 传统算法, 提高检测精度

支持对检测结果进行人工复判

机械结构模块化设计, 快速响应客户需求

离线编程功能, 实现不停机调试



2、QFN 3D AOI: 高速 2D 相机, 结合高频闪光灯, 实现高精度高速采图

自研 AI+ 传统算法, 提高检测精度

支持对检测结果进行人工复判

机械结构模块化设计, 快速响应客户需求

离线实时编程功能, 实现不停机调试



3、UNG-CNC-300A: OO 级大理石底座、立柱、平台, 设备整体精度高、稳定性好

高精度大导程研磨丝杆、高精度线性导轨

程控 5 环 8 区光源搭配平行轮廓光可满足各种产品的测量

强大的图像处理算法可以快速的处理图像、输出结果

一体化平台移动结构设计, 占地空间小、操作方便

可扩展导航及定位功能, 可选配光谱共焦、接触式探针辅助功能



1、IGBT 3D AOI : An optical system that integrates various detection techniques for high-precision, rapid image capture

Grating projection image acquisition, restoration of 3D stereoscopic structure
Self developed AI combined with traditional algorithms to enhance detection precision
Supports manual review of detection outcomes
Modular design of mechanical structure, quick response to customer needs
Offline programming capability for continuous debugging without system downtime

2、QFN 3D AOI: A high-speed 2D camera, paired with a high-frequency flash source, enables high-precision, high-speed image capture

Self developed AI combined with traditional algorithms to enhance detection precision
Supports manual review of detection outcomes
Modular design of mechanical structure, quick response to customer needs
Offline programming capability for continuous debugging without system downtime

3、UNG-CNC-300A: OO grade marble base, column, platform, the overall instrument has high accuracy and good stability

High-precision large-lead grinding screw, high-precision linear guide
Program-controlled 5-ring 8-zone light source with parallel contour light can meet the measurement of various products
Powerful image processing algorithms can quickly process images and output results
The mobile structure design of the integrated platform occupies a small space and is easy to operate
Expandable navigation and positioning functions, optional spectral confocal, touch probe auxiliary functions

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展位号 / Booth No: D24

扬州扬杰电子科技股份有限公司

Yangzhou Yangjie Electronic Technology Co., Ltd
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地址 / Add: 江苏省扬州市邗江区荷叶西路 6 号

6 Heye West Road, Hanjiang District, Yangzhou

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邮箱 / E-mail: yangjie@21yangjie.com

网址 / Web: <https://www.21yangjie.com/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

扬州扬杰电子科技股份有限公司是国内少数集半导体分立器件芯片设计制造、器件封装测试、终端销售与服务等产业链垂直一体化 (IDM) 的杰出厂商。产品线涵盖分立器件芯片、MOSFET、IGBT& 功率模块、SiC、整流器件、保护器件、小信号等, 为客户提供一揽子产品解决方案。

公司产品广泛应用于汽车电子, 新能源, 工控, AI, 电源以及各消费类电子等领域。

公司于 2014 年 1 月 23 日在深交所上市, 证券代码 300373, 相信在您的关怀支持下, 我们一定能够实现让世界信赖中国功率半导体的愿景。

Yangzhou Yangjie Electronic Technology Co., Ltd is one of the few outstanding IDM manufacturers in China which integrates discrete semiconductor chip design and production, semiconductor component assembly and test as well as market sales & services. We have a wide range of product lines including discrete semiconductor chips, mosfets, IGBT& power modules, SiC, rectifiers, protection devices and small signal etc. This enables us to offer total product solution to our customers.

The company's products are widely used in automotive electronics, new energy, industrial control, AI, power supply and various consumer electronics and other fields

The company was listed in Shenzhen Stock Exchange on January 23, 2014, stock code 300373, I believe that with your care and support, we will be able to realize the vision of making the world trust China power semiconductor.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System

产品介绍 / Products Description:

产品名称: SiC-MOSFET

产品亮点 / 技术创新亮点:

更高的反向耐压、更高的开关频率、驱动电路更简单、较高的工作温度、导通电阻较低

应用领域:

PFC 电路、太阳能逆变器、不间断电源、充电桩、光伏逆变器、车载充电器

产品名称: IGBT 模块 & 单管

产品亮点 / 技术创新亮点:

全系列型号、产品封装、拓扑多样化, 匹配不同客户的选型要求

符合业内标准封装, 实现 pin to pin 替代

产品可靠性强, 推出车规产品符合 AEC Q101

变频伺服应用产品具备较强短路能力, 高效率应用产品具备极低导通压降和低开关损耗

先进制造工艺, 传统沟槽和微沟槽产品兼具

不同特性芯片配置, 2-3 种芯片特性细分, 提高系统效率, 消除尖峰隐患, 降低系统 EMI

应用领域:

变频器 / 伺服

光伏

UPS

电源

压缩机控制器

PTC

充电桩

储能

OBC

产品名称：双向晶闸管

产品亮点 / 技术创新亮点：

电压：2800V-8500V

全扩散结构

两个反并联的晶闸管集成在一个硅片上

分布门极设计

低损耗

低成本

应用领域：

高压软启动、无功补偿、工业变频器



Product name: SiC-MOSFET

Product highlights/Technical Innovation Highlights:

- Higher reverse pressure resistance
- Higher switching frequency
- Drive circuit is simpler
- High operating temperature
- Low on-resistance

Application field:

- PFC circuit
- Solar inverter
- Uninterruptible power supply
- Charging pile
- Photovoltaic inverter
- Car charger

Product name: IGBT Modules & Single tubes

Product highlights/Technical Innovation Highlights:

A full range of models, product packaging, topology diversification, to match different customer selection requirements.

In line with industry standard packaging, pin to pin replacement.

Product reliability is strong, launched vehicle regulation products in line with AEC Q101.

Inverter servo application products have strong short-circuit capability, high efficiency application products have very low on-voltage drop and low switching loss.

Advanced manufacturing process, both traditional groove and micro-groove products.

Different characteristics of chip configuration, 2-3 kinds of chip characteristics subdivision, improve system efficiency, eliminate hidden peak, reduce system EMI.

Application field:

Inverter/servo	Solar power	UPS
Power source	Compressor controller	PTC
Charging pile	Compressor controller	OBC

Product name: Bidirectional Thyristor

Product highlights/Technical Innovation Highlights:

Voltage: 2800V-8500V

Full diffusion structure

Two anti-parallel connected thyristors are integrated on one silicon chip

Distributed gate design

Low loss

Low cost

Application field:

High voltage soft start

Reactive power compensation

Industrial converter

展位号 / Booth No: D20

烟台台芯电子科技有限公司

Yantai Taixin Electronic Technology Co., Ltd



地址 / Add: 山东省烟台市开发区厦门大街 39 号

No. 39 Xiamen Street, Yantai Development Zone, Shandong Province

电话 / Tel: 0535-6936509

邮箱 / E-mail: market@yttaxin.com

网址 / Web: http://yttaxin.com/

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 电力供应 Power Supply, 电机工程 Electrical Engineering, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

烟台台芯电子科技有限公司成立于 2017 年, 占地面积 17014 平方米, 投资约 2 亿元。公司拥有涵盖 IGBT 芯片设计、模块封装、产品检测、产品销售为一体的完整产业链, 并涉及第三代宽禁带半导体 SiC 器件的研发和生产。建有专业的研发中心和可靠性检测中心, 技术团队拥有泰山领军人才、双百计划人才及国外专家。

公司是山东省“专精特新”中小企业、高新技术企业、山东省瞪羚企业、烟台市先进制造业高质量发展倍增培育企业, 先后通过 ISO9001 质量管理体系、IATF16949 汽车业质量管理体系。

Yantai Taixin Electronic Technology Co., Ltd. was established in 2017, covering an area of 17014 square meters with an investment of approximately 200 million yuan. The company has a complete industrial chain covering IGBT chip design, module packaging, product testing, and product sales, and is involved in the research and production of third-generation wide bandgap semiconductor SiC devices. A professional research and development center and reliability testing center have been established. The technical team has Mount Taishan leading talents, double hundred plan talents and foreign experts.

The company is a "specialized, refined, unique and new" small and medium-sized enterprise, high-tech enterprise, and advanced manufacturing enterprise in Yantai City, Shandong Province. It has passed the ISO9001 quality management system and IATF16949 automotive industry quality management system.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules

产品介绍 / Products Description:

1.34mm IGBT

产品特性: 采用最新沟槽栅场截止型 IGBT 芯片, 高可靠性及热稳定性, 良好的参数一致性, 100%RBSOA 测试 (2*IC), 低通态压降, 低关断损耗, 高短路耐量 (>10us), 无铅, 符合 RoHS。

应用领域: 逆变焊机、UPS 电源、商灶等。

电流电压范围: 1200V, 40-150A



2.62mm IGBT

产品特性: 采用最新沟槽栅场截止型 IGBT 芯片, 高可靠性及热稳定性, 良好的参数一致性, 100%RBSOA 测试 (2*IC), 低通态压降, 低关断损耗, 高短路耐量 (>10us), 无铅, 符合 RoHS。

应用领域: 逆变焊机、UPS 电源、商灶、新能源汽车、光伏等。

电流电压范围: 1200V, 150-450A



3.Easy 1B IGBT

产品特性: 采用最新沟槽栅场截止型 IGBT 芯片, 集成 NTC 温度传感器, 高可靠性及热稳定性, 良好的参数一致性, 100%RBSOA 测试 (2*IC), 低通态压降, 低关断损耗, 高短路耐量 (>10us), 无铅, 符合 RoHS。

应用领域: 变频、电机驱动控制等。

电流电压范围: 1200V, 10-15A



1. 34mm IGBT

Product features: Adopting the latest trench gate field cutoff IGBT chip, high reliability and thermal stability, good parameter consistency, 100% RBSOA testing (2 * IC), low on state voltage drop, low turn off loss, high short-circuit withstand (>10us), lead-free, compliant with RoHS.

Application areas: inverter welding machine, UPS power supply, commercial stove, etc.

Current and voltage range: 1200V, 40-150A

2. 62mm IGBT

Product features: Adopting the latest trench gate field cutoff IGBT chip, high reliability and thermal stability, good parameter consistency, 100% RBSOA testing (2 * IC), low on state voltage drop, low turn off loss, high short-circuit withstand (>10us), lead-free, compliant with RoHS.

Application areas: inverter welding machines, UPS power supplies, commercial stoves, new energy vehicles, photovoltaics, etc.

Current and voltage range: 1200V, 150-450A

3. Easy 1B IGBT

Product features: Equipped with the latest trench gate field cutoff IGBT chip, integrated NTC temperature sensor, high reliability and thermal stability, good parameter consistency, 100% RBSOA testing (2 * IC), low on state voltage drop, low turn off loss, high short-circuit resistance (>10us), lead-free, RoHS compliant.

Application areas: frequency conversion, motor drive control, etc.

Current and voltage range: 1200V, 10-15A

展位号 / Booth No: C20

洁创

ZESTRON

ZESTRON

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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 消费电子 Consumers Electronics, 航空航天 Aerospace, 医疗电子 Medical Electronics, 汽车工程 Automotive

公司简介 / Company Profile:

ZESTRON 是一家 1975 年成立于德国的跨国公司, 是精密电子制造业清洗领域的技术领航者和可靠性咨询、辅导及培训服务专家。拥有经验丰富的国际化团队, 广泛服务于汽车、医疗、工业、航空和消费电子等领域, 尤其为功率电子生产制造商提供培训、咨询和失效分析等服务, 解决涉及表面和界面的技术难题, 如: 助焊剂的去除、潮湿鲁棒性、绝缘配合、技术 & 离子洁净度以及可烧结性。ZESTRON 致力于帮助客户提升零部件及整机的潮湿环境可靠性。

ZESTRON is a multinational company founded in Germany in 1975. ZESTRON plays a role of the leading provider of cleaning solutions for high precision electronics manufacturing industry and also the expert of consultation, coaching and training service for reliability. ZESTRON is equipped with experienced international team, providing training, coaching and failure analysis service widely for automotive, medical, industrial, aerospace and consumer electronics and other fields, and solving technical challenges upon surfaces and interfaces such as flux removal, moisture resistance, insulation coordination, technical & ionic cleanliness as well as sinterability. ZESTRON is committed to helping customers improve the reliability of electronic components and complete machines in humid environments.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 测试和测量 Test & Measurement

产品介绍 / Products Description:

1) ZESTRON 专门研制用于功率电子的清洗剂产品组合包括水基型和溶剂型清洗液, 涵盖多种清洗技术。可去除如功率模块 / DCB/IGBT、引线框架 / 分立器件和高功率 LED 等元器件上的助焊剂残留。每种产品都有绝佳的清洗性能和材料兼容性, 如敏感金属、裸芯片和钝化层, pH 值中性和碱性的功率电子器件清洗剂都能有效去除助焊剂残留, 并对铜基板有出色的去氧化能力, 从而为后续的引线键合或塑封成型提供最佳工艺条件。

2) ZESTRON 在应对高压可靠性挑战上拥有较早的研究。可帮助客户应对潮湿环境中各种表面风险, 如: 漏电流、电化学迁移、导电阳极丝、锡须、电击穿和污染物等。ZESTRON R&S 采用的技术手段包括但不限于: 高清数码显微镜目检、离子色谱法、离子污染度测试、傅里叶变换红外光谱法、涂覆可靠性测试、颗粒物测定 / 技术清洁度、扫描电子显微镜 / X 射线能谱分析仪、X 射线光电子能谱、俄歇电子能谱、涂覆层测试、助焊剂 / 树脂测试、接触角测量、表面绝缘电阻测量、差热分析等。



1) ZESTRON's portfolio of cleaning agents specifically developed for power electronics includes water-based and solvent-based cleaning fluids and covers a wide range of cleaning technologies. Removes flux residue from components such as power modules/DCBs/IGBTs, leadframes/discretes, and high-power LEDs. Each product has excellent cleaning performance and material compatibility, such as sensitive metals, bare die and passivation layers, pH-neutral and alkaline power electronics cleaners that effectively remove flux residues, and excellent deoxidation of copper substrates, providing optimal process conditions for subsequent wire bonding or molding processes.

2) ZESTRON has earlier research in addressing the challenges of high-voltage reliability. It can help customers deal with various surface risks in wet environments, such as current leakage, ECM, CAF, tin whiskers, electrical breakdown and pollutants. The technical means employed by ZESTRON R&S include, but are not limited to visual inspection with high-definition digital microscope, IC, ROSE, FTIR, CoRe test, Technical Cleanliness, SEM/EDS, XPS, AES, Coating Layer Test, Flux/Resin Test, Contact Angle, SIR, DTA etc.

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展位号 / Booth No: A17**兆东精密工业有限公司****Zhao Dong Precision Industry Co., Ltd.**

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地址 / Add: 浙江省乐清市柳市镇新光大道 188 号

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产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 电力供应 Power Supply, 风能 Wind Energy

公司简介 / Company Profile:

公司始建于 1999 年, 坐落于“中国著名低压电器之都”乐清市柳市镇, 兆东精密工业正式成立于 2011 年, 最早起步初期主要供应正泰集团 DW 系列断路器框架及配套零配件。后因生产需要公司大量引进德国、日本高端 CNC 加工中心设备: 以及数台 630 吨到 3500 吨锻造冲床设备, 开启了精密锻造的匠心之路。在锻造生产开展的同时, 冲压、焊接、机床车削精密加工、走心机加工等系列工艺也同步发展起来, 成为国内外知名企业的一线供应商, 同时公司大力发展新能源电力的供应系统, 在 2018 年建成叠层母排全封闭式无尘压合车间, 拥有国内为数不多的生产与检验设备。不断开启为新能源汽车、光伏风力发电等行业的复合铜排定制系统。现公司拥有日本进...

Zhao Dong Precision Industry Co., Ltd. was founded in 1999, located in the "China's famous low-voltage electrical capital", "the birthplace of the Wentai model" in Yueqing City. Focus on the production of distribution switch control equipment, hydraulic components, electrical systems, mechanical equipment and other forged parts, machined parts and stamping parts. The company's current construction area is about 15000 square meters and the registered capital is more than 70 million yuan. The company currently has 40 sets of 15T-630T stamping machine tools imported from Japan, 8 sets of 630T-1600T forging machines, 20 CNC machining centers, 4 CNC machine tools, 2 sets of turning and milling machines, and more than 50 auxiliary processing equipments (including fast running wire), slow wire, surface grinder, sawing machine, welding equipment, etc.). The company has passed the CQC quality system certification ISO9001 quality certification, IATF 16949 quality management system certification and has a number of products design patents. At the same time, the company also has close cooperation with many domestic electrical giants (Schneider Electric, Delixi Electric, Zhengtai Electric, People's Electric, Taiwan Shilin Electromechanical, etc.) by the government as the top 50 enterprises in the town

产品范围 / Topics:

散热管理 Thermal Management, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage

产品介绍 / Products Description:

锻造件, 通过模具对坯料施加压力, 使之产生塑性变形, 从而获得所需形状和尺寸的一种工艺。锻压生产的优越性在于: 它不但能节省材料, 快速获得零件所需要的形状, 而且能改善材料的内部组织结构, 提高力学性能。

精密冲压件, 具有较高的尺寸精度, 同模件尺寸均匀一致, 有较好的互换性, 不需要进一步机械加工即可满足一般的装配和使用要求。冲压件在冲压过程中, 由于材料的表面不受破坏, 故有较好的表面质量, 外观光滑美观。这为表面喷漆、电镀、钝化及其他表面处理提供了方便条件, 冲压件是在材料消耗不大的前提下, 经冲压制造出来的, 其零件重量轻、刚度好, 并且板料经过塑性变形后, 金属内部的组织结构得到改善, 使冲压件强度有所提高, 冲压件与铸件、锻件相比, 具有薄、匀、轻、强的特点。

紫铜散热器, 一种给主板中的易发热电子元件散热的装置, 散热器自带导热硅脂, 在使用中在电子元件 CPU 和 GPU 直接粘上, 使元器件发出的热量更有效地传导到散热器上, 再经散热器散发到周围空气中去。铜散热器大约比铝散热片的热导性提高 40%, 相比铜材质的散热性也高于其他材质, 所以紫铜散热器现在也大规模的用于新能源汽车上

叠层母排, 母排导体的材料主要是 T2 紫铜, 叠层母排的主要绝缘材料一般采用 PET, 这种材料的性价比最有优势, 如果有特殊要求也会选用其他材料, 比如 FR-4 板及 GPO-3 板做为辅助绝缘材料。叠层母排易于设计、安装快速和结构清晰的配电系统。具有可重复电气性能、低阻抗抗干扰可靠性好、节省空间、装配简洁快捷等特点的大功率模块化连接结构部件。叠层母排广泛应用于轨道交通, 风力和太阳能逆变器, 工业变频器, 或其他要求电力分配的部件。



Forging, a process by which a die is applied to a billet to produce a plastic deformation that results in the desired shape and size. The advantage of forging production is that it can not only save material and obtain the shape of parts quickly, but also improve the internal structure and mechanical properties of materials.

Precision stamping parts, with high dimensional accuracy, with the die size uniform, has a good interchangeability, no further machining can meet the General Assembly and use requirements. In the stamping process, because the surface of the material is not damaged, it has better surface quality and smooth and beautiful appearance, which provides convenient conditions for surface painting, electroplating, passivation and other surface treatment, the stamping parts are made by stamping on the premise that the material consumption is not big. The parts are light in weight and good in rigidity, compared with castings and forgings, stamping parts are thin, even, light and strong.

Copper radiator, a device that radiates heat away from the electronic component in the motherboard. The radiator comes with a heat-conducting silicone grease that is glued directly to the electronic component CPU and GPU in use, the heat from the components is more effectively transmitted to the radiator, and then dispersed to the surrounding air through the radiator. Copper radiators are about 40 percent more conductive than aluminum, and copper radiators are better than other materials, so copper radiators are now widely used in new-energy vehicles

The main insulating material of the laminated busbar is PET, which has the best performance-price ratio. If there are special requirements, we will choose other materials, for example, Fr -4 and GPO -3 board as Auxiliary Insulation Materials, laminated bus easy to design, install fast and clear structure of the distribution system. The high-power modular connection structure is characterized by repeatable electrical performance, low impedance, good reliability, space-saving, simple and quick assembly, etc. . Stacked bus is widely used in rail transit, wind and solar inverters, industrial inverters, or other components requiring power distribution.

展位号 / Booth No: A08

浙江泛源鑫才科技有限公司

Zhejiang Fanyuan Xincan Technology Co., Ltd.



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产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 风能 Wind Energy

公司简介 / Company Profile:

浙江泛源鑫才科技有限公司专业从事半导体热传导系统产品的研发、制造与销售。产品广泛应用于新能源汽车、轨道交通、高端装备、智能电网、航空航天等领域。

公司的主要产品包括 PINFIN 结构 IGBT 散热器、Cooler 结构 IGBT 散热器、平板结构 IGBT 散热器等, 材料涉及铜、铝、铝基碳化硅等。

同时公司拥有多种表面处理工艺, 如氨基磺酸镍、化学镍、局部镀银等。

Zhejiang Fanyuan Xincan Technology Co., Ltd. specializes in the research and development, manufacture and sales of semiconductor heat transfer system products. The products are widely used in new energy vehicles, rail transit, high-end equipment, smart grid, aerospace and other fields.

The company's main products include PINFIN structured IGBT heat sinks, COOLER structured IGBT heat sinks, flat panel structured IGBT heat sinks, etc. The materials involved are copper, aluminum, aluminum based silicon carbide, etc.

The company has a variety of surface treatment processes, such as Sulfamic acid nickel electroplating, chemical nickel electroplating, partial silver electroplating, etc.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management

产品介绍 / Products Description:

PINFIN 结构 IGBT 散热器以纯铜为基本材料, 通过锻造、机加工、退火、喷砂、弯曲、电镀等工艺进行加工。此款 IGBT 散热器具有优异的散热性。我司独创性的电镀工艺又使本此款产品具有优秀的焊接性, 极大提升降低焊接空洞率, 大幅度提升 IGBT 封装的合格率。



The PINFIN structure IGBT heat sink is made of copper as the basic material, and is processed by forging, machining, annealing, sandblasting, bending, electroplating, etc. This IGBT heat sink has excellent heat dissipation. Our innovative electroplating process also endows this product with excellent weldability, greatly improving and reducing the welding void rate, and greatly improving the qualification rate of IGBT packaging.

展位号 / Booth No: C60

浙江艾姆勒车电科技有限公司

Zhejiang Amulaire Thermal Technology Co., Ltd



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网址 / Web: <http://www.amulaire.com.cn/>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 光伏 Solar Energy, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

浙江艾姆勒车电科技有限公司成立于 2021 年, 为台湾艾姆勒科技与舜宇集团合资的子公司。

致力于绿能电子装置散热的研发与产制, 目前已成为国际一线汽车厂商供应链的重要成员, 公司生产的逆变器 /IGBT 模块散热产品已应用于知名电动车及油电混合车中。

结合自身专业能力和丰富的经验, 艾姆勒能满足客户从设计、优化、打样、新产品引进到量产的种种需求。公司设计团队可迅速提供优化设计与分析结果, 进行客制化设计, 满足客户需求。目前公司逐渐完成自动化, 以快速应对市场庞大需求。

Amulaire Thermal Technology(ATT) was established in June, 2011. We have been devoting ourselves to the R&D of cooling for green electronic devices for more than 20 years.

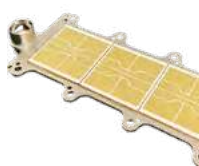
With efficient product design and simulation, stable production, reliable quality and 24/7 after-sales service, our R&D teams will meet customers' needs from design, optimization, sampling, new product introduction to mass production.

产品范围 / Topics:

散热管理 Thermal Management

产品介绍 / Products Description:

车用水冷式散热片 (IGBT/SiC 功率模块、电池管理系统、车载充电器、先进驾驶辅助电脑)



pin-fin, ADAS cooler, copper/aluminum cooler, copper/aluminum baseplate

展位号 / Booth No: A26

浙江翠展微电子有限公司

Zhejiang Cuizhan Micro electronics Co., Ltd



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网址 / Web: <https://www.grecon-semi.com>

产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 消费电子 Consumers Electronics, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

浙江翠展微电子有限公司成立于 2018 年 5 月, 公司位于素有接轨上海第一站之美称的浙江嘉善县, 东邻上海 (80 公里), 西依杭州 (98 公里), 北靠苏州 (90 公里), 公司自有厂房占地 59 亩, 目前已经具备 4 条功率器件封装线, 汽车模块年产能接近 100 万只 (全部建设完成将达到 300 万 / 年的产能), 工业年产能突破 200 万只 (全部建设完成将达到 500 万只 / 年的产能)。

翠展微电子作为一家中国本土的功率器件公司, 公司已经可以提供 IGBT 单管, IGBT 模块, SIC 单管, SIC 模块等一系列功率器件产品, 应用市场覆盖汽车、光伏及工业等领域。公司已经具备芯片设计; 仿真能力, 模块生产, 可靠性测试及应用端的方案级别支持等综合能力, 公司目前已经通过 IA-TF16949, ISO14001, ISO9001, ISO17025 等体系认证。

翠展微电子立志打破进口垄断, 实现进口替代, 将公司打造成为新能源半导体行业的中国品牌领军企业。公司将聚焦中国新能源行业的挑战和压力, 提供有竞争力的半导体产品和服务, 持续为新能源领域客户创造价值。公司坚持以技术为导向, 为客户提供个性化、系统级的产品与技术咨询服务, 驱动中国芯片产业快速蓬勃发展, 共筑中国芯, 中国梦!

Zhejiang Cuizhan Micro electronics Co., Ltd was established in May, 2018, which located in Jiashan County, Zhejiang Province. Known as the "gateway to Shanghai", it is adjacent to Shanghai (80 kilometers) to the east, Hangzhou (98 kilometers) to the west, and Suzhou (90 kilometers) to the north. The company's self-owned factory has 4 power device packaging lines and covers an area of 59 acres. The annual production capacity of automotive modules is close to one million units (the complete construction will reach a production capacity of 3 million units/year). The annual industrial production capacity exceeds 2 million units (After completion of construction, the production capacity will reach 5 million units/year).

Cuizhan Microelectronics as a local power device company in China, which already provide a series of power device products such as IGBT single tubes, IGBT modules, SIC single tubes, and SIC modules. The application markets cover automotive, photovoltaic, and industrial fields. The company already has comprehensive capabilities such as chip design, simulation capabilities, module production, reliability testing and application-side solution-level support. The company has currently passed IA-TF16949, ISO14001, ISO9001, ISO17025 and other system certifications.

Cuizhan Microelectronics is determined to break the import monopoly, realize import substitution, and build the company into a leading Chinese brand in the new energy semiconductor industry. The company will focus on the challenges and pressures of China's new energy industry, provide competitive semiconductor products and services, and continue to create value for customers in the new energy field. The company insists on being technology-oriented, providing customers with personalized, system-level products and technical consulting services, driving the rapid and vigorous development of China's chip industry, and jointly building Chinese chips and the Chinese dream!

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 开发软件 Development Software

产品介绍 / Products Description:

miniHPD 采用高效散热设计和先进的功率电子器件, 实现更高的功率密度和能量转换效率, 使模块在小尺寸下能够提供更大的功率输出。同时采用先进的封装材料和技术, 提升了模块的抗振动、抗湿度、抗腐蚀等性能。

Tpak 逆变砖模块采用了高集成的一体化设计以及可靠的激光焊接工艺，实现了 Tpak 单管模块高功率密度的应用。模块还集成了完备的散热系统以及电性能、运行温度的检测系统，达到了高可靠性高成熟度和应用方便的优越效果。

1200V HPD 采用更高电压平台芯片，提升整体模块的输出功率，满足市场上 800V 的功率平台的需求。同时采用先进的封装材料和抗振动工艺，提升了模块的抗振动，满足市场上越来越高的振动要求。



miniHPD uses an efficient heat dissipation design and advanced power electronics to achieve higher power density and energy conversion efficiency, enabling the module to provide greater power output at a small size. At the same time, advanced packaging materials and technologies are used to improve the module's anti-vibration, anti-humidity, anti-corrosion and other properties.

The Tpak Inverter Brick Module adopts a highly integrated, all-in-one design and employs reliable laser welding technology, enabling high power density applications for Tpak single-tube modules. Furthermore, it incorporates a comprehensive heat dissipation system along with monitoring systems for electrical performance and operating temperature, achieving superior results in terms of high reliability, advanced maturity, and ease of application.

The 1200V HPD module adopts high-voltage platform chips, thereby boosting the overall output power of the module to cater to the market's need for 800V power delivery systems. Additionally, leveraging sophisticated encapsulation materials and advanced anti-vibration techniques, it augments the module's vibration resilience, aligning with the escalating vibration resistance standards in the industry.

展位号 / Booth No: F60

浙江杭可仪器有限公司

Zhejiang Hangke instrument Co.,Ltd.

ATIS

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157 Hongda Road, Economic Development Zone, Xiaoshan District, Hangzhou City, Zhejiang Province, China.

电话 / Tel: 0571-86451253

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网址 / Web: <https://www.hkyq.com.cn/>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电机工程 Electrical Engineering

公司简介 / Company Profile:

浙江杭可仪器有限公司 (ATIS), 总部位于中国杭州, 是一家有着悠久历史传承和丰富技术沉淀的高端装备制造企业。公司专注于半导体可靠性测试设备及特种电源领域, 是专业的测试方案提供者、高效的测试系统服务者、领先的电子电源设备研制者。

Zhejiang HangKe Instrument Co., Ltd. (ATIS HangKe), headquartered in Hangzhou, China, is a high-end equipment manufacturing enterprise with a long history, rich technological heritage, and profound expertise. Specializing in semiconductor reliability testing equipments and special power supply fields, the company serves as a professional provider of testing solutions, efficient testing system services, and a leading developer of electronic power equipment.

产品范围 / Topics:

测试和测量 Test & Measurement

产品介绍 / Products Description:

PC3000A 该系统适用于各种尺寸的 IGBT 模块的功率循环试验, 且运用先进的 JEDEC 静态试验方法 (JESD51-1)。通过改变电子器件的输入功率, 使得器件产生温度变化。变化过程中, 通过测试芯片的瞬态温度响应曲线, 并对测试波形进行数据处理, 得到该电子器件的全面热特性。

PMRP2000 该系统适用于各种尺寸的 IGBT 功率模块的连续功率测试, 基于实际应用环境搭建老化参数测试系统, 进行电应力老化测试。模拟 IGBT 功率模块在整车使用中的工况进行长时间大电流的老化测试及马达堵转测试。老化过程中实时监测被测器件的峰值电流、平均值电流、输入电压、输出电压、温度等参数, 并根据需要记录老化试验数据, 导出试验报表。

动态老化测试系统 (DHTRB2000, DHTGB2000, DH3TRB2000): 该系列针对第三代半导体 SiC MOSFET 进行高温动态栅偏老化和测试 / 高温动态反偏老化测试 / 高温高湿动态反偏老化测试。



PC3000A: The system is suitable for power cycling test of various sizes of IGBT modules and uses the advanced JEDEC static test method (JESD51-1) to generate temperature changes by varying the input power of the electronic component. During the change, through transient temperature response curve of the tested chip and data processing of the test waveform to obtain the full thermal characteristics of the electronic component.

PMRP2000: The system is suitable for continuous power testing of IGBT power modules of various sizes. Based on practical application environments, burn-in parameter test is built perform electrical stress burn-in test on the system. Simulate the working conditions of IGBT power modules in the use of the entire vehicle for long-term high current burn-in and motor stall testing. Real time monitoring of peak current, average current, input voltage, output voltage and temperature of the tested device during burn-in process, record burn-in test data as needed, and export test reports.

Dynamic burn-in test system (DHTRB2000, DHTGB2000, DH3TRB2000): This series performs high temperature dynamic gate bias burn-in and testing/high temperature dynamic reverse bias burn-in test/high temperature and high humidity dynamic reverse burn-in test for the third generation semiconductor SiC MOSFET.

展位号 / Booth No: G27

浙江精瓷半导体有限责任公司

Zhejiang Jingci Semiconductor Co., Ltd



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No.12 Hangping road, Jiaxing city, Zhejiang province, China

邮箱 / E-mail: ouyq@zjcbdt.com

网址 / Web: <https://www.zjcbdt.com>

产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 消费电子 Consumers Electronics, 航空航天 Aerospace, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives

公司简介 / Company Profile:

2019 年 9 月成立江西淼旭电子科技有限公司, 2020 年 10 月公司迁至海宁, 并更名为浙江精瓷半导体有限责任公司, 2021 年 11 月启动海宁产线建设, 2022 年 7 月海宁建设完成投产, 2022 年达成年产值 1000 万元, 2023 年 8 月完成 A 轮亿元融资启动二期工程, 2023 年 12 月获省高新企业认证, 2023 年达成年产值 6100 万元

9/2019, Jiangxi Miao Xu Electronic Technology Co., Ltd. was established.

2020, moved to Zhejiang Haining city, and re-named to Jingci Semiconductor Co., Ltd.

11/2021, launched Haining production line.

7/2022, Haining completed construction and went into production.

2022, the annual output value reached ¥10 million yuan.

8/ 2023, completed a round of ¥100 million financing to start the second phase of the project.

12/2023, was certified as provincial high-tech Enterprises.

2023, had an annual output value of ¥61 million yuan.

产品范围 / Topics:

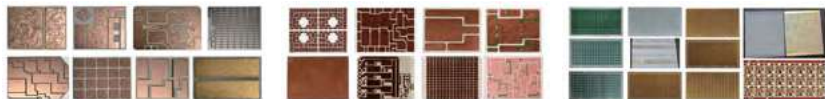
功率半导体 / 器件 Power Semiconductors Components and Modules, 传感器 Sensors

产品介绍 / Products Description:

DBC 覆铜陶瓷基板: 覆铜基板由陶瓷绝缘体 (Al₂O₃ 或 AlN) 和铜组成, 采用高温熔化和扩散工艺使铜纯铜层粘合至陶瓷上。最后通过蚀刻和激光切割制作出线路基板。

DPC 覆铜陶瓷基板: DPC 是在陶瓷薄膜工艺加工基础上发展起来的陶瓷电路加工工艺。以陶瓷作为线路的基板, 采用溅镀、电镀和光刻工艺形成电路。

AMB 覆铜陶瓷基板: AMB 是利用钎料中少量活性元素与陶瓷反应, 从而实现陶瓷与金属接合的一种方法。可制作出具有良好导热性能和稳定机械性能的金属-陶瓷复合材料。



DBC substrates consist of ceramic insulator (Al₂O₃ or AlN) and copper. Pure copper bonded on ceramic by using high-temperature melting and diffusion processes, and the circuit is formed by etching and laser processing.

DPC is a ceramic circuit technology based on ceramic thin film processing. Ceramic is used as the base substrate, and the circuit is produced using sputtering, plating, and lithography processing.

AMB is a technology of bonding metal to ceramic by using a small amount of active elements in the paste reacted with ceramic. Metal ceramic composite materials with good thermal conductivity and stable mechanical properties can be produced by this method.

展位号 / Booth No: C22

浙江德汇电子陶瓷有限公司

Zhejiang TC Ceramic Electronic Co.,Ltd



浙江德汇电子陶瓷有限公司
绍兴德汇半导体材料有限公司

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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

浙江德汇电子陶瓷有限公司是北京清华工研院通过信汇科技有限公司, 布局在新能源、新材料领域的重要节点企业, 现位于浙江嘉兴市南湖区的嘉兴科技城, 是浙江清华长三角研究院引进到嘉兴的项目。致力于高性能陶瓷电路板及其相关电子元器件的开发、生产和销售。于 2020 年 4 月成立绍兴德汇半导体材料有限公司, 是浙江德汇电子陶瓷有限公司的全资子公司。

公司产品广泛应用于新能源汽车、轨道交通、家用电器、光伏和风能发电、智慧电网、智能制造、信息通信等重要行业领域。

德汇在消化吸收国际先进技术的基础上, 自主开发和制造的高性能陶瓷金属化产品, 填补了国内市场空白, 实现了进口替代, 提供了功率半导体不可或缺的关键性陶瓷金属复合材料。

成立以来, 德汇始终不忘“聚焦高性能电子陶瓷”的初心, 牢记“为创造、发展更清洁更智能的人类社会做出贡献”的使命, 积极践行“简单、阳光、担当、奋斗”的企业文化, 为满足客户需求不断创新研发。

Zhejiang Dehui Electronic Ceramics Co., Ltd. is an important node enterprise in the field of new energy and new materials, which is located in Jiaxing Science and Technology City, Nanhu District, Jiaxing City, Zhejiang Province. It is a project introduced to Jiaxing by Zhejiang Tsinghua Yangtze River Delta Research Institute. It is committed to the development, production and sales of high-performance ceramic circuit boards and related electronic components. Shaoxing Dehui Semiconductor Materials Co., Ltd. was established in April 2020, which is a wholly-owned subsidiary of Zhejiang Dehui Electronic Ceramics Co., LTD.

The company's products are widely used in new energy vehicles, rail transit, household appliances, photovoltaic and wind power generation, smart grid, intelligent manufacturing, information and communication and other important industries.

On the basis of digestion and absorption of international advanced technology, Dehui independently developed and manufactured high-performance ceramic metallization products, which filled the gap in the domestic market, realized import substitution, and provided the key ceramic metal composite materials indispensable for power semiconductors.

Since its establishment, Dehui has never forgotten the original intention of "focusing on high-performance electronic ceramics", bearing in mind the mission of "contributing to the creation and development of a cleaner and smarter human society", actively practicing the corporate culture of "simple, sunshine, responsibility and struggle", and constantly innovating and developing to meet customer needs.

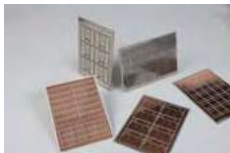
产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 电力供应 Power Supply

产品介绍 / Products Description:

活性金属钎焊氮化硅陶瓷覆铜板
AMB (Active Metal Brazing)

活性金属钎焊氮化铝陶瓷覆铜板
AMB (Active Metal Brazing)



展位号 / Booth No: H29

浙江正天新材料科技有限公司

Zhejiang Zhengtian New Materials Technology Co., Ltd.



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产品应用范围 / Scope of Applications:

电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 航空航天 Aerospace, 照明 Lighting

公司简介 / Company Profile:

浙江正天新材料科技有限公司成立于 2017 年, 公司主要业务是氮化铝 (AlN)、氮化硅 (Si₃N₄) 陶瓷基板及产品的研发、生产和销售及行业服务, 主要用于电机动力系统中电子元件上功率模块内的覆铜陶瓷基板, 其产品的热导率高、弯曲强度高, 使电力电子模块的寿命延长十倍之多。

本公司在生产加工方面, 拥有多条大型流延生产线, 从流延、裁切、冲孔、静压、热切至烧结成型是国内拥有完整加工链的公司。

公司拥有现代化无尘生产车间, 各种成套专业生产和检测设备, 严格按照国际同类标准执行生产。从而保证了产品的品质国内领先, 可以和进口产品相媲美。产品广泛应用于电子、机械、照明、汽车和航空航天领域, 具有高硬度、高绝缘性、高热导、高光洁度、耐酸碱腐蚀、耐高温等综合性能。

Zhejiang Zhengtian New Material Technology Co., Ltd. was established in 2017. The company's main business is the research and development, production, and sales of aluminum nitride (AlN) and silicon nitride (Si₃N₄) ceramic substrates and products, as well as industry services. It is mainly used for copper-clad ceramic substrates in power modules of electronic components in motor power systems. Its products have high thermal conductivity and bending strength, which extends the life of power electronic modules by up to ten times.

Our company has multiple large-scale casting production lines in terms of production and processing. We are a domestic company with a complete processing chain from casting, cutting, punching, static pressing, hot cutting to sintering.

The company has a modern dust-free production workshop, various complete sets of professional production and testing equipment, and strictly follows international standards for production. This ensures that the quality of the product is domestically leading and comparable to imported products. The product is widely used in the fields of electronics, machinery, lighting, automotive, and aerospace, with comprehensive properties such as high hardness, high insulation, high thermal conductivity, high smoothness, acid and alkali corrosion resistance, and high temperature resistance.

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 散热管理 Thermal Management, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage

产品介绍 / Products Description:

公司主要业务是氮化铝 (AlN)、氮化硅 (Si₃N₄) 陶瓷基板及产品的研发、生产和销售及行业服务, 主要用于电机动力系统中电子元件上功率模块内的覆铜陶瓷基板, 其产品的热导率高、弯曲强度高, 使电力电子模块的寿命延长十倍之多。产品广泛应用于电子、机械、照明、汽车和航空航天领域, 具有高硬度、高绝缘性、高热导、高光洁度、耐酸碱腐蚀、耐高温等综合性能。



The company's main business is the research and development, production, sales, and industry services of aluminum nitride (AlN) and silicon nitride (Si₃N₄) ceramic substrates and products. They are mainly used for copper-clad ceramic substrates in power modules of electronic components in motor power systems. Their products have high thermal conductivity and bending strength, extending the life of power electronic modules by up to ten times. The product is widely used in the fields of electronics, machinery, lighting, automotive, and aerospace, with comprehensive properties such as high hardness, high insulation, high thermal conductivity, high smoothness, acid and alkali corrosion resistance, and high temperature resistance.

展位号 / Booth No: A06

珠海富士智能股份有限公司

ZHUHAI FUJI CHINON CO.,LTD.



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产品应用范围 / Scope of Applications:

自动化 Automation, 电动汽车 E-mobility, 工业电子 Industrial Electronics, 光伏 Solar Energy, 轨道交通 Rail + Traction, 消费电子 Consumers Electronics, 航空航天 Aerospace, 电力供应 Power Supply, 照明 Lighting, 电机工程 Electrical Engineering, 医疗电子 Medical Electronics, 通信 Communications, 计算电子 Computing Electronics, 汽车工程 Automotive, 电机驱动控制 Motor Control Drives, 风能 Wind Energy

公司简介 / Company Profile:

珠海富士智能股份有限公司成立于 2004 年, 总部位于珠海, 在东莞, 泉州, 宁波, 江门, 合肥, 香港, 深圳有生产基地或办事处, 厂房面积 23.6 万 m², 员工人数 2200 人; 2023 年产值 9.88 亿元, 预计 2024 年产值达 14 亿元; 公司具备产品研发、模具设计制造(有模具工厂)、材料成型(冲压、锻压、挤压、注塑)、CNC 加工、精密组装、表面处理(喷砂、抛光、阳极氧化、电镀)等完善的生产配套工序和技术能力, 更好更快的满足客户需求。合作客户: LG、Panasonic、SONY、BOM、TCL、Hisense、BYD、英博尔、科大讯飞、创维、康佳、瑞浦兰钧、冠宇等。

Founded in 2004, Zhuhai Fuji Smart Co., Ltd. is headquartered in Zhuhai, with production bases or offices in Dongguan, Quanzhou, Ningbo, Jiangmen, Hefei, Hong Kong and Shenzhen, the company employs 2,200 people and has a 2023 output value of \$988 million, with an estimated 2024 output value of \$1.4 billion. The company has product research and development, mold design and manufacturing (with mold factory), material forming (stamping, forging, extrusion, injection molding), CNC machining, Precision Assembly, surface treatment (sandblasting, polishing, anodizing, electroplating) and other complete production procedures and technical capabilities, better and faster to meet customer needs. Partners: LG, Panasonic, Sony, BOM, TCL, Hisense, BYD, Enpower, iFLYTEK, Skyworth, Konka, REPT, COSMX, etc. .

产品范围 / Topics:

功率半导体 / 器件 Power Semiconductors Components and Modules, 被动元件 Passive Components, 散热管理 Thermal Management, 传感器 Sensors, 配置和子系统 Assemblies and Subsystems, 伺服技术 / 执行器 Electrical Drives, 智能运动 Intelligent Motion, 电力供应 Power Supply, 能源储存系统 Power Quality & Energy Storage, 能源管理系统 Energy Management System, 测试和测量 Test & Measurement, 开发软件 Development Software, 信息与服务 Information & Services

产品介绍 / Products Description:

散热系统: 散热底板、双面散热器、散热器组件、水冷盒等
动力电池: CCS、Busbar、铜铝排连接件、防爆阀、端侧板等
消费类: 智能显示器组件、3C 消费类电子等精密结构件。



太极针式 HPD 散热基板



双面水冷散热器



水冷盒

Heat sink system: heat sink base plate, double side heat sink, heat sink assembly, water cooler, etc.

Power Battery: CCS, Busbar, copper-aluminum row connector, explosion-proof valve, end side plate, etc.

Consumer category: Intelligent Display Components, 3C consumer electronics and other precision structural components.

展位号 / Booth No: H34

碳化硅芯观察

InSemi Research



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China Automation Industry Service Group
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Rm A206, Digital Building, China University of Geosciences, KeYuan South Road, Shenzhen City

电话 / Tel: 0755-82912183

邮箱 / E-mail: expo@ca168.com

网址 / Web: https://www.ca168.com/

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中自集团拥有网刊会及数字移动合一的专业平台，以及政府部门、行业组织、专家学者、企业家、用户、投资机构等各种社会资源。旗下有《变频器世界》、《智慧工厂》等品牌期刊，中自网 www.ca168.com、中自移动数字传媒 www.cadmm.com 等专业网站。

China Automation Industry Service Group (abbr. CAISG) is the China Automation industry chain which incorporates the magazine, website, conferences, researches and digital mobile media and integrates the communication, marketing, consulting and investing service institutions.

CAISG has a network of journal and digital mobile one of the professional platform, as well as government departments, industry organizations, experts and scholars, entrepreneurs, users, investment institutions and other social resources. There are ""The world of inverters"", ""Smart Factory"" and other brand journals, since the network www.ca168.com, since the mobile digital media www.cadmm.com and other professional website.

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展位号 / Booth No: H36

Bodo's 功率系统

Bodo's 功率系统®

Bodo's Power Systems China

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地址 / Add: 上海市长宁区东诸安浜路 165 弄 16 号楼 602 室

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网址 / Web: <https://www.dldz360.com/>

公司简介 / Company Profile:

自 2006 年起, Bodo's Power Systems 就已成为业内领先的出版物, 并以其独特的采编视角联合来自产、学、研各界庞大的特约专家队伍, 为电力电子和相关企业、科研机构、院校提供最新资讯, 分享前沿技术, 搜罗最新产品。全面覆盖嵌入式电源、设计测量、电池、便携式电源、数字电源、设计与模拟、大功率开关、高压变频器、IGBT、热能管理等科技发展与产品应用。

Since 2006, Bodo's Power Systems magazine has been one of the world's leading publications for power electronics, power management, power conversion, intelligent and the embedded motion control market for system design engineers.

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集邦咨询顾问 (深圳) 有限公司
TrendForce
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邮箱 / E-mail: cathyjiang@trendforce.cn
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公司简介 / Company Profile:

集邦咨询 (TrendForce) 是一家全球高科技产业研究机构, 2008 年成立于深圳, 专注于市场分析和企业顾问服务。研究领域涵盖半导体、显示面板、光电、新能源以及前沿科技。公司定期发布行业报告, 预测市场趋势, 举办行业峰会, 促进产业交流合作。

TrendForce 集邦咨询的化合物半导体专题报告主要涵盖《碳化硅功率半导体市场分析报告》与《氮化镓功率半导体市场分析报告》。

碳化硅相关报告每年更新两次, 分别着眼于全球市场和中国市场, 重点分析供应链各环节发展情况及主要厂商动态。氮化镓相关报告聚焦全球市场发展, 重点分析供应链各环节发展情况及主要厂商动态。

TrendForce is a global high-tech industry research institution, established in Shenzhen in 2008, focusing on market analysis and corporate consulting services. The research areas cover semiconductors, display panels, optoelectronics, new energy, and cutting-edge technologies. The company regularly releases industry reports, forecasts market trends, holds industry summits, and promotes industrial exchange and cooperation.

TrendForce's reports on compound semiconductors mainly include ""Silicon Carbide Power Semiconductor Market Analysis Report"" and ""Gallium Nitride Power Semiconductor Market Analysis Report.

The silicon carbide-related reports are updated twice a year, focusing on the global market and the Chinese market, with an emphasis on analyzing the development of various supply chain segments and the dynamics of major manufacturers.

The gallium nitride-related reports focus on the development of the global market, with an emphasis on analyzing the development of various supply chain segments and the dynamics of major manufacturers.

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