



益思迪集团

优质防静电产品

HIGH QUALITY ANTI-STATIC PRODUCTS



益思迪™

WIN-WIN COOPERATION FOR FUTURE

我们一起携手共赢未来





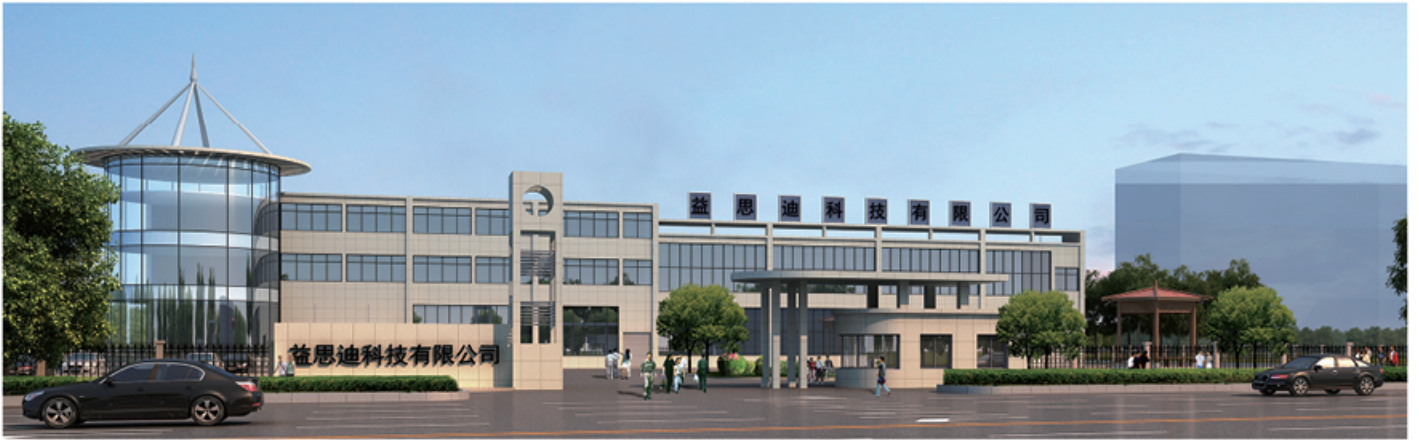
1 Company introduction 企业简介

益思迪集团成立于 2009 年，是一家专注为全球提供优质、高性价比防静电产品和防静电解决方案的高新技术企业。在近十年的发展历程中，益思迪始终高举“吸纳创新，不断超越”旗帜，走在国内防静电行业的最前沿。如今的益思迪，拥有三家子公司，在德国，深圳，上海，东莞，湖南均设有研发中心，在深圳、上海、无锡、重庆均设有办事处，建立起了一套严密的“产、研”良性发展系统，成为防静电行业内最负盛名、最具竞争力的公司之一。

ESTEE Technologies was established in 2009, which is a high-tech company that specialized in providing high quality, cost effective anti-static products and ESD solutions to global customer. Over the past ten years, ESTEE adheres to “absorbing innovation and constantly surpassing”, to be the leader in ESD industry in China. Currently, ESTEE has 3 wholly owned subsidiaries, has R&D centers in Germany, Shenzhen, Shanghai, Dongguan and Hunan, and has offices in Shenzhen, Shanghai, Wuxi and Chongqing, with a strict “manufacturing and R&D” benign development system, ESTEE has becoming one of the most famous and competitive companies in ESD industry.

集团下属 3 家下属工厂，拥有全球领先的防静电半导体用特种胶粘制品（如 UV tape、QFN tape、PVC 蓝膜、热解粘胶带等）生产线，防静电 IC 溅镀双面胶带生产线，防静电特种离型膜 / 保护膜生产线，高端智能防静电仪器组装测试线，纸质载带生产线，塑胶载带生产线，微小器件全自动冲压落料包装线，自动化分切车间，自动化分条车间，高精度自动化模切线，高精尖的模具制作中心，快速高效的配合模切制品的开发。

ESTEE has three subordinate factories, which has the world's leading production lines for semiconductor special antistatic adhesive tape (such as UV tape, QFN tape, crystal cutting dedicate PVC tape and heat separation tape etc.), antistatic IC sputtering process tape, antistatic special liner/protective film, high-end smart ESD equipment assembly, paper carrier tape, micro components automatic punching and packing, automatic dividing & cutting workshop, automatic itemizing workshop, high precision molding tooling workshop to satisfy die-cutting material development quickly and efficiently.



厂区图片 Factory view



生产环境（千级无尘室5000平方米）
Production environment (5000m² 1K clean room)



Lab equipment

实验设备



剥离力测试仪
Peel Force Tester



初粘力测试
Primary Adhesive Tester



环境试验机
Environmental testing machine



保持力测试箱
Tape Retention Test Box



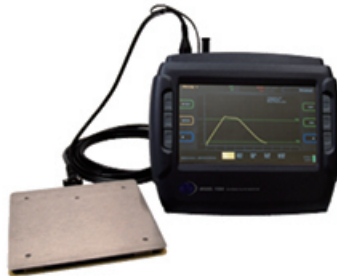
3D测量仪
3D Measuring instrument



表面阻抗测试仪
Surface Resistance Tester



静电电压表
Electrostatic Voltmeter



平板测试仪
CPM



FT-IR 光谱仪
FT - IR spectrometer



耐电压测试仪
Withstanding voltage tester



硅涂布量测试仪
Silicon coating value tester



光电雾度测试仪
Light transmittance and fog tester

集团目前拥有专业研发团队，其中iNARTE认证专家3人；拥有静电相关的专利20多起
 ESTEE has professional R&D team with 3 iNARTE certified experts; Own 20+ antistatic related patents.

Patent and Certification

相关专利和证书



便携式接地监控机构 专利证书



非硅器件盒 专利证书



红外线接地监控机构 专利证书



纸载带成型装置 专利证书



静电电压测试仪 专利证书



人体综合检测机构 专利证书



直流离子风机 专利证书





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CONSULTING SERVICE

ESD咨询服务

提供领先的ESD解决方案-Provide leading ESD solutions

▶ ESD防护体系设计

ESD protection system design

- 根据客户要求及产品生产工艺和条件，设计工厂的ESD防护体系；

Design ESD protection system for factory according to customer's requirements and production technology & conditions about products;

▶ ESD疑难解决方案

ESD troubleshooting solution

- ESD现场问题诊断与改善；

Diagnose and improve the ESD problems;

- 静电敏感器件ESD/EOS失效分析；

Position and analyze electrostatic sensitive devices ESD/EOS failure;

- ESD接地系统故障诊断；

Diagnose ESD grounding system failure

▶ 企业内部培训

Enterprise internal training

- 器件静电失效分析及案例培训；

Electrostatic device failure analysis and case training

▶ 工厂ANSI/ESD S20.20评估和认证前期辅导

ANSI/ESD S20.20 assessment & implementation

- 现场勘查评估； On-site survey & evaluation;

- ESD内部培训； ESD internal training;

- ESD文件体系设计； ESD document system design;

- ESD问题整改方案； ESD problems improvement scheme

▶ 第三方ESD防护体系评估和稽查.

- 2nd Party ESD protection system evaluation & audit

智能型静电防护仪器

Smart Anti-static Equipment

EI80 Series Dual Circuit Grounding Monitor EI80系列 双回路接地监控仪



Description

产品概况

EI80系列双回路接地监控仪主要用于监控EPA区域防静电工作台的手腕带、台垫、设备的接地状况，LCD实时显示监控阻值,监控的数据可通过WIFI 网络传输。

EI80 series dual circuit grounding monitor designed for EPA area' s wrist strap, mat and equipment grounding monitoring, which has LCD display to show the real-time monitoring data and upload with WIFI.

Features

产品特点

- LCD实时显示监控阻值

LCD display shows real-time monitoring data;

- 采用电阻式双回路监控原理，保证可靠接地

Dual circuits resistive loop technology, reliable grounding & monitoring;

- 能将手腕带、台垫和设备接地监控到的数据通过WIFI 网络传到PC机中，以进行监控资料获取

Upload monitoring data from wrist strap, mat and equipment to PC for data collection via WIFI;

Function

功能描述

- EI809同时监控4个手腕带、1个台垫和1台设备的接地，LCD显示阻值，有线网络连接

EI809 monitors 4 wrist straps, 1 mat and 1 equipment grounding status with LCD shows resistance with wire connection.

- EI809AL同时监控4个手腕带、1个台垫和1台设备的接地，LCD显示阻值，无线网络连接

EI809AL monitors 4 wrist straps, 1 mat and 1 equipment grounding status with LCD shows resistance and wireless connection.

Application

应用环境

主要用于通讯，电子，微电子行业静电防护区域内腕带，防静电台垫，设备接地的状态进行实时监控。

For communications, electronics, micro-electronics industry EPA area' s wrist strap, mat and equipment real time grounding monitoring

EI70/MR10 Series Dual Circuit Grounding Monitor EI70/MR10系列 双回路接地监控仪



Description

产品概况

EI70/MR10系列双回路接地监控仪主要用于监控EPA区域防静电工作台的手腕带、台垫、设备的接地状况。

EI70/MR10 series dual circuit grounding monitor mainly applied to EPA area grounding monitoring for wrist strap, mat and equipment.

Features

产品特点

- 采用电阻式双回路监控原理，接地可靠
Resistive loop technology, reliable grounding monitoring;
- 能将手腕带、台垫和设备接地监控到的数据通过转换卡传到PC机中，以进行监控资料获取
Upload monitoring data from wrist strap, mat and equipment to PC for data collection

Function

功能描述

- EI701同时监控2个手腕带、1个台垫和1台设备的接地；EI701 monitors 2 wrist straps, 1 mat and 1 equipment grounding status;
- EI702 (EI702A) 同时监控4个手腕带和1个台垫接地；EI702 (EI702A) monitors 4 wrist straps, 1 mat grounding status;
- EI703同时监控6个手腕带、1个台垫和1台设备的接地；EI703 monitors 6 wrist straps, 1 mat and 1 equipment grounding status;
- EI705同时监控4台设备的接地；EI705 monitors 4 equipment grounding status;
- EI706同时监控4个台垫接地；EI706 monitors 4 mats grounding status;
- MR1006同时监控2个手腕带的接地；MR1006 monitors 2 wrist straps grounding status;
- MR1008同时监控2个手腕带和1个台垫或一个设备接地；MR1008 monitors 2 wrist straps and 1 mat or 1 equipment grounding status;

Application

应用环境

主要用于通讯，电子，微电子行业静电防护区域内腕带，防静电台垫，设备接地的状态进行实时监控。

Widely applied to communications, electronics, micro electronics industry EPA area to monitor mat, equipment real time grounding status.

DC Air Ionizers 直流离子风机

Description

产品概况



EI90系列为一种双稳态直流离子风机，带有自平衡负反馈系统，中和静电迅速，离子气流覆盖面积大，提供优越的离子平衡效能（能调节离子平衡度），完全符合要求严格的超高洁净环境下使用。

EI90 series is DC ionizer, with self-balanced and looping feedback system. Rapid static neutralizing, large coverage of the ion flows to provide excellent ions balance performance (adjustable ions balance reference), fully meet super clean room environment requirements.

Features

产品特点

- 产生稳态的直流离子，中和静电迅速 Generate stable DC ions, rapid static neutralizing;
- 自平衡,离子平衡度好(<+/-5V), 离子平衡度0V基准可调节 Self-balanced, excellent ion balance (<+/-5V), adjustable ions balance reference (0V);
- 离子气流覆盖面积大，风量可调节 Large coverage of the ion airflow, airflow adjustable;
- 能将平衡度状态通过转换器上传到PC中，以进行数据采集 Upload the balance status to PC via converter for data collection;
- 可选配发射针自清洁装置，减少维护频率 Choose automatic needle cleaning equipment to reduce maintenance frequency.

Function

功能描述

- EI901为单头台式离子风机，具有一个离子出风口 EI901 is single head benchtop air ionizer, has one air fan;
- EI902为二头吊式离子风机，具有二个离子出风口 EI902 is a dual head suspension air ionizer, has two air fans;
- EI903为三头吊式离子风机，具有三个离子出风口 EI903 is a triple head suspension air ionizer, has three air fans;
- EI905为二头卧式离子风机，具有二个离子出风口 EI905 is a dual head horizontal air ionizer, has two air fans;

Application

应用环境

主要用于通讯，电子，微电子行业静电防护区域内静电源的消除。

For communications, electronics, micro-electronics industry to eliminate electrostatic.

DC Ion Bar
直流离子棒



Description

产品概况

EI907系列为一种双稳态直流离子棒，中和静电迅速，离子气流覆盖面积大（接压缩空气），提供优越的离子平衡效能（能调节离子平衡度），完全符合要求严格的超高洁净环境下使用。

EI907 series is DC ion bar, with rapid static neutralizing, large coverage of the ion flows (connect to compressed air) and excellent ions balance performance (ions balance reference adjustable), fully meet super clean room environment requirements.

Features

产品特点

- 产生稳态的直流离子，中和静电迅速; Generate stable DC ions, rapid static neutralizing.
- 离子平衡度基准可调0V Adjustable ions balance reference (0V)
- 接压缩空气，出风量可调节，离子气流覆盖面积大; Connect to compressed air, airflow adjustable, large coverage of the ion airflow.
- 节能：与传统离子棒相比，EI907F节约气量30-50%左右; Energy conservation: compared to traditional ion bar, EI907 save about 30-50% of the gas.
- 能将使用的各状态通过转换器上传到PC中，以进行数据采集; Upload the equipment status to PC via converter for data collection.

Function

功能描述

- EI907 为直流无风离子棒(无需接压缩空气) EI907 is DC wind free ion bar (no need to connect to compressed air)
- EI907S 为直流无风离子棒(无需接压缩空气) EI907S is DC wind free ion bar (no need to connect to compressed air)
- EI907F 为直流离子风棒(需接压缩空气) EI907F is DC ion bar (connect to compressed air)

Application

应用环境

主要用于通讯，电子，微电子行业静电防护狭小区域内的静电源消除。

For communications, electronics, micro-electronics industry to eliminate electrostatic in constrained small EPA area.

Smart ESD Integrated Resistance Tester ESD 综合电阻测试仪



Description

产品概况

ET80系列 ESD综合电阻测试仪可以对双脚和腕带(包含单回路和双回路腕带)进行独立测试。测试结果以声/光方式显示. 同时通过软件可控制防护区的门禁装置.

ET80 series smart ESD integrated resistance tester can test two feet and wrist strap (single circuit and dual circuit wrist strap) individually. Test result shows in audio/lighting and can use for controlled EPA area access.

Features

产品特点

- 测试界面LED动态显示, 可动态显示测试状态; LED display shows real-time test data and test status;
- 根据授权选择人员测试模式, 测试结果自动记录; Automatically choose test mode by access control and record test data;
- 根据测试结果和权限进出门禁系统; Control access through test data;
- 测量精度高(小于100M时精度为5-10%)。High test accuracy (5-10% accuracy within 100M);

Function

功能描述

- ET801 ESD 综合电阻测试仪, 可连接门禁, 无数据记录功能; ET801 smart ESD integrated resistance tester can connect to access control, no data recording function;
- ET802 ESD 综合电阻测试系统, 可连接门禁, 具有数据记录, 网络授权功能; ET802 smart ESD integrated resistance tester can connect to access control, data recording function, network authorize function;
- ET803 ESD 综合电阻测试系统, 自带闸机, 具有数据记录, 网络授权功能; ET803 smart ESD integrated resistance tester has access with itself, data recording function, network authorize function

Application

应用环境

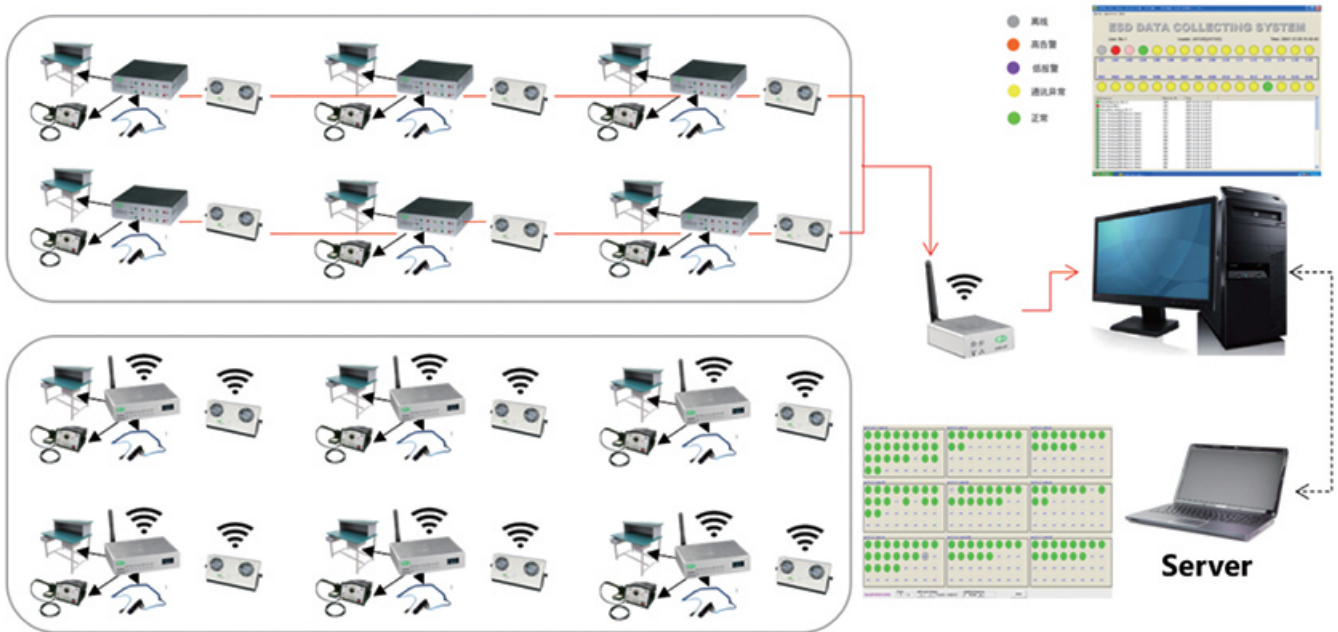
主要用于通讯, 电子, 微电子行业静电防护区域内人体鞋装综合电阻测试。

For communications, electronics, micro-electronics industry EPA area integrated resistance test.

Network Connection Diagram
网络连接示意图

双回路接地监控仪/直流离子风机/直流离子棒网络连接示意图

Dual Circuit Grounding Monitor/DC Air Ionizers/DC Ion Bar Network Connection Diagram



ESD 综合电阻测试仪网络连接示意图

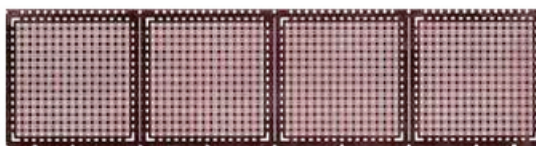
Smart ESD Integrated Resistance Tester Connection Diagram



半导体行业防静电材料

Anti-static Material for Semiconductor Industry

QFN Package Dedicate Tape
QFN 封装工艺专用胶带



Description

产品概况

ESTEE-QFN 系列为是一款 QFN (Back Side Film) tape, 用于粘贴在半导体引线框架背面, 在 Molding 工艺制程起到遮蔽的效果, 以防止将 Molding 树脂渗透到屏蔽区域, 该产品具有良好的耐温性及防静电性能。

ESTEE-QFN is a kind of QFN (Back Side Film) tape, which used for pasting on the back of semiconductor lead frame and playing a shielding function on the Molding process to prevent the penetration of the molding resin into the shielded area. This product has excellent thermal resistance and anti-static performance.

Features and Parameters

产品性能参数

管控项目 Control Item	技术参数 Technical Parameter					
	30PI50EL	30PI120EL	35PI60EL	35PI80EL	35PI100EL	35PI120EL
PI 基材厚度 (um) PI base thickness	25					
胶层厚度 (um) Adhesive thickness	5		10			
剥离力 Peel strength (gf/ inch)	50	120	60	80	100	120
表面电阻 (ohms) adhesive side surface resistance	10^{6-8}					
解卷电压 (V) @ 300mm/min Unwinding voltage	<100					
使用温度 (°C) Operating temp.	-10 ~ 240					

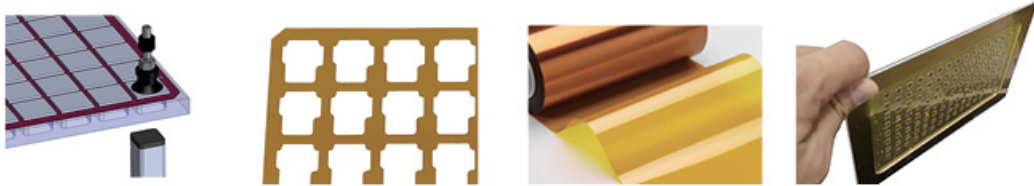
Application

应用环境

适用于粘贴在半导体引线框架背面, 在 Molding 工艺制程起到遮蔽的效果, 以防止将 Molding 树脂渗透到屏蔽区域。适用于高温后需移除且无残胶的表面保护用。

This product used for pasting on the back of semiconductor lead frame and playing a shield function on the Molding process to prevent the penetration of the molding resin into the shielded area. Used for after high temp process need remove tape and no residue process.

Sputtering Process Dedicate Tape 溅镀工艺专用胶带



Description

产品概况

ESTEE-SP609B\SP610\612 系列为溅镀工艺专用胶带，用于高温真空溅镀制程固定 IC, SIP 模组，该产品具有良好的粘黏性，防静电性能，高温真空溅镀后产品表面无溢镀、无残胶、碎屑可控。

ESTEE-SP609B\SP610\612 series is an adhesive tape special for the sputtering process, which applied to high-temperature vacuum sputtering process to fix IC, SIP module. This product has good viscosity, excellent anti-static performance and there is no overflow, no glue residue and the debris are under control after sputtering process.

Features and Parameters

产品性能参数

管控项目 Control Item	技术参数 Technical Parameter		
	SP609B	SP610	SP612
厚度 (um) Thickness (um)	50~100	200	125/150/180
溅镀面剥离强度 (N/ inch) Sputtering side peel strength	5~8	8~12	10~15
表面电阻 (ohms) Surface resistance	10 ⁶⁻⁸	/	/
解卷电压 (V) @ 300mm/min Unwinding voltage	<100	<100	<100
使用温度 (°C) Operating temp.	<200	<240	<200

备注：可配合客户产品外形定制模切品。

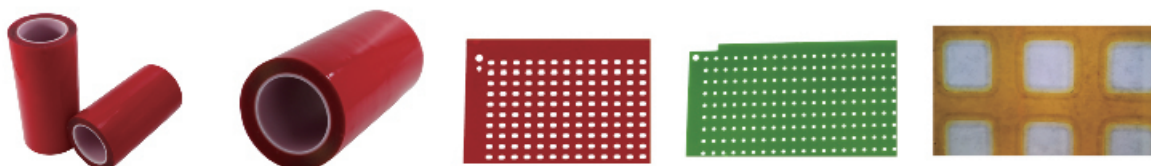
Note: Shape and dimension can be customized by customer requirement.

Functions and Applications

功能描述与应用环境

- SP609B: 防静电泡棉双面胶带，适用于无硅制程要求的 IC, SIP 模组高温真空溅镀制程使用；
SP609B: Anti-static foam double-sided tape, applied to non-silicone IC/SIP module high temp vacuum sputtering process.
- SP610: 双面胶带，适用于 IC, SIP 模组的高温真空溅镀制程使用；
SP610: Double-sided tape, applied to IC/SIP module high temp vacuum sputtering process;
- SP612: 单面胶带，适用于小尺寸 (3*3mm 以下) IC、SIP 模组 (无锡点，锡球) 真空溅镀制程使用；
SP612: Single-sided tape, applied to samll size (smaller than 3*3mm) IC, SIP module (no solder point, solder ball) vacuum sputtering process;

Sputtering Process Dedicate Tape 溅镀工艺专用胶带



Description

产品概况

ESTEE-SP609\610E 系列为溅镀工艺专用泡棉胶带，用于高温真空溅镀制程固定 IC, SIP 模组，BGA 使用，该产品具有良好的粘黏性，防静电性能、缓冲性能优异，高温真空溅镀后产品表面无溢镀、无残胶、碎屑可控。

ESTEE-SP609\610E series is an foam adhesive tape special for the sputtering process, which applied to high-temperature vacuum sputtering process to fix IC, BGA, SIP module. This product has good viscosity, excellent anti-static performance and buffer performance, and there is no overflow, no glue residue and the debris are under control after sputtering process.

Features and Parameters

产品性能参数

管控项目 Control Item	技术参数 Technical Parameter	
	SP609	SP610E
厚度 (um) Thickness (um)	350/550/850	425/625/925
溅镀面剥离强度 (N/ inch) Sputtering side peel strength	8~15	8~12
载具面剥离强度 (N/ inch) Carrier side peel strength	5~8	10~15
表面电阻 (ohms) Surface resistance	10^{6-8}	/
解卷电压 (V) @ 300mm/min Unwinding voltage	<100	<100
使用温度 (°C) Operating temp.	<200	<240

备注：可配合客户产品外形定制模切品。

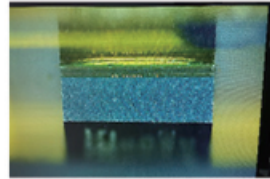
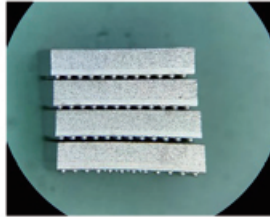
Note: Shape and dimension can be customized by customer requirement.

Functions and Applications

功能描述与应用环境

- SP609: 覆合型泡棉双面胶带，适用于 IC, SIP 模组的高温真空溅镀制程使用；
SP609: assembled double-sided adhesive foam tape, applied to IC/SIP module high temp vacuum sputtering process;
- SP610E: 覆合型泡棉双面胶带，适用于 IC、SIP 模组（特大尺寸 SIP，可预防模组高温弯曲）的高温真空溅镀制程使用；
SP610E: assembled double-sided adhesive foam tape, applied to IC/SIP module (big size SIP module, to avoid module bending during high temp process) high temp vacuum sputtering process;

Sputtering Process Dedicate Tape
溅镀工艺专用胶带



产品概况 Description

ESTEE-SP611\613\615\616 系列为溅镀工艺多用途胶带，用于高温真空溅镀制程固定微小 IC，高锡球 BGA，高温解粘，UV 解粘等特殊工艺环境下使用，该产品具有良好的粘黏性，防静电性能、缓冲性能优异，高温真空溅镀后产品表面无溢镀、无残胶、碎屑可控。

ESTEE-SP611\613\615\616 series is a kind of multipurpose adhesive tape for the sputtering process, which applied to high temperature vacuum sputtering process to fix litter IC, BGA, high temperature debonding, UV debonding etc. This product has good viscosity, excellent anti-static performance and buffer performance, and there is no overflow, no glue residue and the debris are under control after sputtering process.

产品性能参数 Features and Parameters

管控项目 Control Item	技术参数 Technical Parameter			
	SP611	SP613	SP615	SP616
厚度 (um) Thickness (um)	22	350/550/850	450/650/950	22/35/60/85
溅镀面剥离强度 (N/ inch) Sputtering side peel strength	0.35-0.45	12~20	8~15	10~15
载具面剥离强度 (N/ inch) Carrier side peel strength	/	5~8	10~15	/
表面电阻 (ohms) Surface resistance	/	10 ⁶⁻⁸	10 ⁶⁻⁸	10 ⁶⁻⁸
解卷电压 (V) @ 300mm/min Unwinding voltage	<100	<100	<100	<100
使用温度 (°C) Operating temp.	<240	<200	<200	<200

备注：1、可配合客户产品外形定制模切品。

2、SP615 使用热解方式，热解温度可定制；

3、SP613/ SP616 使用 UV 解粘方式，可通过调节 UV 能量控制解粘效果；

Note: 1、Shape and dimension can be customized by customer requirement.

2、SP615 uses pyrolysis method, the pyrolysis temperature can be customized;

3、SP613 / SP616 uses UV debonding, which can control the debonding effect by adjusting UV energy;

应用环境 Applications

SP611: Pre Tape, 适用于 IC、SIP 模组 pad 面保护，在 SAW 前贴在基板 Pad 面进行贴合使用；

SP611: Pre Tape, applied to IC, SIP module pad protection, place on pad before SAW process;

SP613: UV 泡棉胶带，适用于 BGA 产品（锡球高度 100~300um）真空溅镀制程使用。

SP613: assembled double-sided adhesive foam tape, applied to BGA products (solder ball height between 100~300um) vacuum sputtering process;

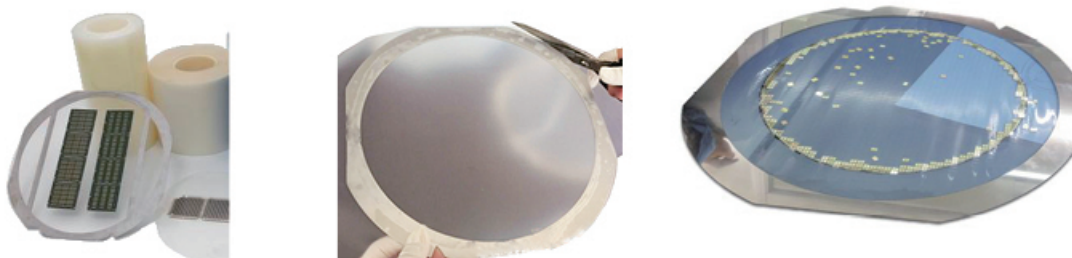
SP615: 热解覆合型双面胶带，适用于 IC、LGA、SIP 模组的高温真空溅镀制程使用，溅镀完成使用加热解粘方式降低 Tape 粘力，取出产品；

SP615: heat separation assembled double-sided adhesive foam tape, applied to IC/LGA/SIP module high temp vacuum sputtering process, use the thermal debonding method to reduce the tape adhesion after sputtering, and remove the product.

SP616: 高温 UV Tape (Ring Tape)，适用于 IC、LGA、SIP 模组的高温真空溅镀制程使用，溅镀完成使用 UV 解粘方式降低 Tape 粘力，取出产品；

SP616: high temp UV tape (Ring Tape), applied to IC/LGA/SIP module high temp vacuum sputtering process, use UV debonding to reduce tape adhesion after sputtering ,and remove the product.

Tape Anti-static UV tape 防静电 UV 胶带



Description

产品概况

ESTEE-UV 系列是一款防静电 UV Tape, 防静电 UV 胶带初始具有较高剥离力, UV 照射后变成低黏的特性, 还具有良好的防静电性能。

ESTEE-UV series is a kind of anti-static UV tape, which has high peel force at first, and after UV curing will change to low properties with excellent anti-static performance.

Features and Parameters

产品性能参数

管控项目 Control Item	技术参数 Technical Parameter						
	193T600E2L2	85PO650EL	85PO900EL	85PO1200EL	160PO1200EL	160PO1500EL	
材质 Base	PET	PO					
基材厚度 (um) base thickness	188	80			150		
胶层厚度 (um) Adhesive thickness	5	5			10		
剥离力 (gf/ inch) Peel strength	UV 照射前 Before UV curing	600±100	650±100	900±150	1200±200	1200±200	1500±200
	UV 照射后 After UV curing	<50					
断裂伸长率 (%) Elongation at Break	/	>600					
表面电阻 (ohms) adhesive side surface resistance	10 ⁶⁻⁸						
解卷电压 (V) @ 300mm/min Unwinding voltage	<100						

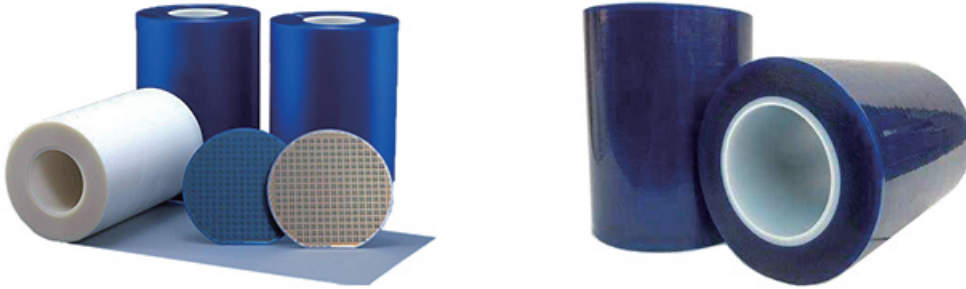
Applications

应用环境

适用于硅片、封装基板、陶瓷、玻璃、水晶等多种工件的切割工程中使用, 移除后无残胶。

Widely applied to silicon plate, packaging base, ceramics, glasses, crystal and etc. cutting process, and there is no residue after removing.

Crystal Cutting Dedicate Tape
晶圆切割专用 PVC 胶带



Description

产品概况

ESTEE-WAFER 系列是一款晶圆切割专用胶带，采用软质 PVC 为基材，用于晶圆 /LED 切割固定，该产品具有良好的柔软性，抗残胶及防静电性能。

ESTEE-WAFER series is a kind of crystal cutting dedicate PVC tape, which applied soft PVC film as the base, to fix crystal/LED during cutting process, it is with excellent flexibility, no residue and anti-static performance.

Features and Parameters

产品性能参数

管控项目 Control Item	技术参数 Technical Parameter	
	85PVC100E2L	85PVC150E2L
材质 Base	PVC	
基材厚度 (um) Base thickness	80	
剥离力 (gf/ inch) Peel strength	80-120	130-170
解卷力 (gf/ inch) Unwinding force	<20	
表面电阻 (ohms)Surface resistance	10^{6-8}	
解卷电压 (V) @ 300mm/minUnwinding voltage	<100	
使用温度 (°C)Operating temp.	-10 ~ 70	

Applications

应用环境

适用于晶圆 /LED 切割固定

Widely applied to fasten crystal/LED during cutting process.

Heat Separation Tape 热分离胶带



产品概况 Description

ESTEE-RM 系列是一款防静电热分离胶带，通过高温烘烤可使胶带粘度降低，移除后无胶残留，且防静电性能优异。

ESTEE-RM series is a kind of heat separation tape with excellent anti-static performance, after high temperature process, the viscosity will decrease, and there is no residue after removing.

产品性能参数 Features and Parameters

管控项目 Control Item		技术参数 Technical Parameter			
		RM-180T1000E2L	RM-200T1200/1200 E2L2	RM-200T1200/1400 E2L2	RM-200T1200/1600 E2L2
基材厚度 (um) base thickness		100	36		
胶层厚度 (um) Adhesivethickness	A Side	80	80		
	B Side	/	80		
剥离力 (gf/ inch) Peel strength	A 面解胶前 Side A Before curing	1000±200	1200±200	1200±200	1200±200
	B 面解胶前 Side B Before curing	/	1200	1400	1600
	解胶后 After curing	<20			
非胶面表面电阻 (ohms) Non-adhesive side surface resistance		10 ⁶⁻⁸			
解卷电压 (V) @ 300mm/min		<100			

备注：解粘温度 120~260°C可定制

Debonding temperature 120-160°C can be customized

应用环境 Applications

适用于硅片、封装基板、陶瓷、玻璃、水晶等多种工件的切割工程中使用，移除后无残胶。

Widely applied to silicon plate, packaging base, ceramics, glasses, crystal and etc. cutting process, and there is no residue after removing.

光器件行业防静电材料

Anti-static Material for Optical Industry

Self-absorbing Gel Box
自吸附包装盒



Description

产品概况

ESTEE-BOX/ Tray 系列采用特殊高分子胶水，胶体透明，网格印刷在胶底部，ESTEE-Glass 采用透明玻璃基板，表面涂布透明非硅胶水的自吸附包装盒（配合包装盒使用），具有优异的聚光性能。ESTEE-BOX/ Tray/Glass 吸附性能，即使倾斜或震动也不会使器件脱落。

ESTEE-BOX/ESTEE-Tray series uses special macromolecule material with transparent colloid and grid printed in the bottom of colloid; ESTEE-Glass is a kind of glasses with glue in the top surface, Suit for focusing alignment and light transmission requirement process. ESTEE-BOX/ Tray/Glass have proper adhesion to fix devices without moving/falling off during transportation.

Features and Parameters

产品性能参数

管控项目 Control Item	技术参数 Technical Parameter		
	ESTEE-BOX	ESTEE-Tray	ESTEE-Glass
胶水 Adhesive	非硅胶 or 硅胶 Silicone free gel or Silicone gel		
尺寸 (mm)Dimension	50*50 80*30、80*80、120*90	50*50	
上 / 下盖组合 Top/Bottom configurations	淡蓝色 + 淡蓝色, 淡蓝色 + 黑色, 黑色 + 黑色, 透明 + 透明, 透明 + 黑色 Blue + Blue, Blue + Black, Black + Black, Transparent + Transparent, Transparent + Black		
网格印刷图形 Grid printed graphics	1010A、0506A、0215A、1010B（网格线规格可定制）（Bottom printing can be customized）		/
网格线颜色 Printing colour	白色 or 蓝色 white or blue		/
胶水颜色 Adhesive color	透明 or 黑色 Transparent or Black		透明 Transparent
剥离力 Peel strength (Level)	1~18		
表面电阻 (ohms)Surface resistance	10 ⁶⁻⁸		
表面静电电压 (V)Surface static voltage	<100		

备注：胶水表面粘性可根据客户制程进行调整。

Note: Adhesive viscosity can be adjustable base on customer requirement.

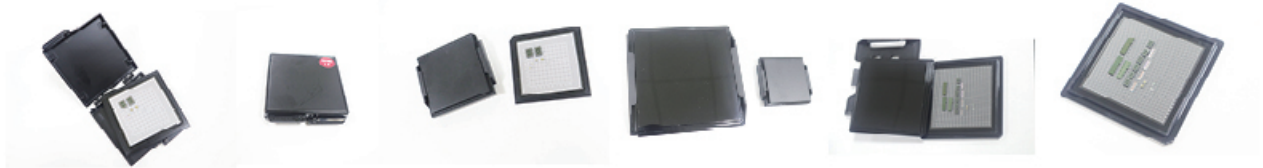
Applications

应用环境

应用于光学材料、半导体组件、光学器件、医疗器械等一系列高科技领域的产品特殊存放及运输。

Applied to special storage and transportation for devices such as optics material, semiconductor devices, optical devices, medical devices and etc. in the high-tech field.

Vacuum Release Tray ESTEE-VR 盒



Description

产品概况

ESTEE-VR 采用特殊高分子胶膜，胶体透明，正常状态下，胶面器件紧密粘贴，保证运输周转过程中，器件不移动，真空状态下表面粘度降低，便于自动化设备取放。

ESTEE-VR uses special macromolecule transparent film to assemble, normally the sheet attach to tray strictly to ensure transportation safety, when implement to vacuum, the adhesion decrease rapidly for automatic PnP.

Features and Parameters

产品性能参数

管控项目 Control Item	技术参数 Technical Parameter	
	ESTEE-VR	
胶水 Adhesive	非硅胶 or 硅胶 Silicone free gel or Silicone gel	
尺寸 (inch) Dimension	2*2	4*4
组装配置 Assembly configurations	1、盒子结构 (上盖 / 下盖): 淡蓝色 + 黑色, 黑色 + 黑色 BOX(top/bottom): Blue + Black, Black + Black 2、盘夹结构: 黑色 + 黑色 Chuck: Black + Black	盘夹结构: 黑色 + 黑色 Chuck: Black + Black
网格印刷图形 Grid printed graphics	1010A、0506A、0215A (网格线规格可定制) (Bottom printing can be customized)	
网格布目数 (Mesh) Mesh Size	15, 36, 74, 100, 135, 195	
网格线颜色 Printing colour	白色 or 蓝色 white or blue	
胶水颜色 Adhesive color	透明 or 黑色 Transparent or Black	
剥离力 Peel strength (Level)	0~18	
表面电阻 (ohms) Surface resistance	10 ⁶⁻⁸	
表面静电电压 (V) Surface static voltage	<100	

备注：胶水表面粘性可根据客户制程进行调整。

Note: Adhesive viscosity can be adjustable base on customer requirement.

Applications

应用环境

应用于光学材料、半导体组件、光学器件、医疗器械等一系列高科技领域的产品特殊存放及运输。

Applied to special storage and transportation for devices such as optics material, semiconductor devices, optical devices, medical devices and etc. in the high-tech field.

Fasten Fiber-optical Double-sided Tape
光纤粘贴专用双面胶带



产品概况 Description

ESTEE-FIX 是一款防静电光纤粘贴专用双面胶带,用于固定光纤管, 粘贴牢固, 光纤管不起翘, 不脱落, 该产品具有良好的耐温性及防静电性能。
ESTEE-FIX is a kind of antistatic fasten fiber-optical double-sided tape, with excellent temperature tolerance and antistatic performance, which usually applied to fasten fiber tube to guarantee the fiber tube not bending, tilting or falling off.

产品性能参数 Features and Parameters

管控项目 Control Item		技术参数 Technical Parameter	
		105PI1600/700EL	
结构 Construction		PI 双面胶带 PI Double side tape	
厚度 (um) Thickness		105	
剥离力 (gf/ inch) Peel strength	光纤面 Fiber tube side	1300~1800	
	治具面 Fixture side	500~900	
表面电阻 (ohms)Surface resistance		10^{6-8}	
解卷电压 (V) @ 300mm/minUnwinding voltage		<100	
使用温度 (° C)Operating temp		-10 ~ 200	

应用环境 Applications

适用于粘贴光纤管, 在烘烤工艺制程起到固定的效果, 以防止光纤管起翘, 脱落。适用于高温后需移除且无残胶的表面保护用。
Widely applied to fasten fiber tube during curing process to avoid fiber tube bending, falling off and there is no glue residue after moving the tape.

Anti-static Dust-free Foam Swab
防静电无尘棉棒



产品概况 Description

EC701 系列是一款防静电无尘擦拭棉棒, 具有很强吸液性, 坚韧性, 耐磨性好, 优异的防静电性能等特点, 不会刮伤被擦拭器件, 不会掉屑。
EC701 series is a kind of antistatic dust-free foam swab, with strong capability of solvent lock, good tenacity, excellent abrasion, excellent anti-static performance and etc., which will not scratch devices, no debris residue.

产品性能参数 Features and Parameters

管控项目 Control Item	技术参数 Technical Parameter		
	EC701A-3	EC701B-3	EC701C-3
棉头形状 Foam swab end shape	尖头 Sharp end	圆柱 Cylinder	扁头 Flat end
棉头 Foam swab material	超细纤维 Superfine fiber		
总长度 Total length	3 inch (7.5cm)		
杆子颜色 Pole color	淡绿色 / 透明 Light green/Transparent		
表面电阻 Surface resistance (ohms)	10^{6-8}		
摩擦电压 Abrasive voltage (V)	<100		

应用环境 Applications

适用于电子光电产品, 激光及相关工业, 半导体及相关产业的磁读写头, 视频头, 磁头的清洗等精密器件的清洗。
Widely applied to clean precession devices such as magnetic reading and writing heads, video heads, and magnetic heads in electro industry, laser and related industries, semiconductor and related industries.

防静电胶黏制品

Anti-static Adhesive Material

PI High Temperature Protective Tape
PI 高温保护胶带



产品概况 Description

ESTEE -EP303 PI 胶带系列 是一款有机硅类胶带, 该产品具有良好的耐温性及防静电性能, 适用于高温后需移除且无残胶的表面保护用

ESTEE -EP303 PI Tape series is anti-static organic silicon tape, which has excellent thermal tolerance and anti-static performance, apply to high temperature process and no residue after removing.

产品性能参数 Features and Parameters

管控项目 Control Item	技术参数 Technical Parameter							
	EP303-55PI500	EP303-35PIBK500E	EP303-35PI300E	EP303-40PI400E	EP303-45PI450E	EP303-50PI500E	EP303-55PI500E	EP303-62PI500E
基材 Base	PI 膜 PI film							
胶面材质 Adhesive	有机硅胶 Organic silicone gel							
总厚度 (um) Total thickness	55	35	35	40	45	50	55	62
剥离力 (gf/ inch) Peel strength	500	500	300	400	450	500	500	500
非胶面表面电阻 (ohms)Non-adhesive side surface resistance	/	10 ⁶⁻⁸						
解卷电压 (V) @ 300mm/min Unwinding voltage	/	<100						
使用温度 (° C)Operation temp	-10 ~ 260	-10 ~ 260	-10 ~ 280	-10 ~ 260	-10 ~ 260	-10 ~ 260	-10 ~ 260	-10 ~ 260

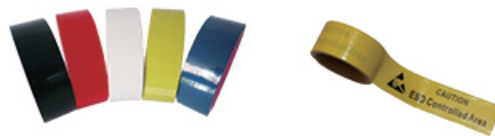
备注: 宽度可根据客户要求进行分切。Note: The width can be customized.

应用环境 Applications

适用于对电路板、金手指等在回流焊接, 波峰焊接, 返修等过程中的保护。适用于高温后需移除且无残胶的表面保护用。

Apply to PCB, PCB golden fingers and etc. in the reflow, wave flow or repair process and there is no residue after removing.

Anti-static Signage Tape
防静电标识胶带



产品概况 Description

ESTEE-MK 系列是一款防静电亚克力胶类标示胶带, 该产品具有良好的防静电性能, 使用后无胶残留。

ESTEE-MK series is a single-sided anti-static acrylic signage tape, which has excellent anti-static performance, and there is no residue after removing.

产品性能参数 Features and Parameters

管控项目 Control Item	技术参数 Technical Parameter						
	MK-140YY500	MK-50BK750E2	MK-50G750E2	MK-50B750E2	MK-50P750E2	MK-50R750E2	MK-50Y750E2
颜色 Color	黄色 + 印刷 /Y+printing	黑色 /BL	绿色 /G	蓝色 /B	粉红色 /Pink	红色 /R	黄色 /Y
胶面材质 Adhesive	亚克力胶 Acrylic gel						
基材材质 Base	PVC						PET
总厚度 (um) Total thickness	140						50
剥离力 (gf/ inch) Peel strength	500						750
表面电阻 (ohms)Surface resistance	/						10 ⁶⁻⁸
解卷电压 (V) @ 300mm/min Unwinding voltage	/						<100
使用温度 (° C)Operating Temp	<50						

备注: 宽度可根据客户要求进行分切。Note: The width can be customized

应用环境 Applications

适用于 EPA 内工作台, 产品区域划分等使用。

Usually apply to mark EPA area work table, product area dividing, EPA flooring signage and etc

PET Protective film
PET 保护膜

产品概况 Description

EP 系列是一款 PET 防静电保护膜，该产品具有良好的防静电性能，以 PET 为基材，涂布特殊亚克力胶 / 硅胶，使其具有黏着性、耐高温、不转移、易重工，且撕除后也不会有残胶。

EP series is a kind of antistatic PET protective film, which has excellent antistatic performance, with PET base, using special acrylic gel/silicone gel, to make it adhesive, high temp tolerance, no transfer, easy to rework, and no residue after removing.

产品性能参数 Features and Parameters

管控项目 Control Item	技术参数 Technical Parameter						
	EP-45B3 E2L	EP-35T1 E2L	EP-45T20 E2L	EP-120T50 E2L	EP120T150 E2L	EP303-60 T2	EP303-60 T9
基材 Base	蓝色 PET/Blue PET			透明 PET/Transparent PET			
胶面材质 Adhesive	亚克力胶 Acrylic gel					硅胶 Silicone gel	
总厚度 (um) Total thickness	45	35	45	120	120	60	60
剥离力 (gf/ inch) Peel strength	1-5	0.5-2	15-25	40-60	130-170	0.5-2	6-12
表面电阻 (ohms) Surface resistance	10 ⁶⁻⁸					/	
解卷电压 (V) @ 300mm/min Unwinding voltage	<100					/	
使用温度 (°C) Operation temp	-10 ~ 130			-10 ~ 150		-10 ~ 160	

备注：宽度可根据客户要求进行分切。 Note: The width can be customized.

应用环境 Applications

适用于玻璃面板、平面产品表面的保护、光电材料表面的保护、高温制程、电子、塑胶、胶粘制品、模切冲型加工等领域。

Applied to glass panel, flat panel surface protection, optical devices surface protection, high temperature process electros, plastic, adhesive products, die-cutting, punching manufacturing area and etc.

PET Tape
PET 胶带

产品概况 Description

EP 系列 PET 胶带是一款防静电胶带，该产品具有良好的耐温性及防静电性能。

EP series is a single-sided antistatic organic silicone PET tape, which has excellent thermal tolerance and anti-static performance.

产品性能参数 Features and Parameters

管控项目 Control Item	技术参数 Technical Parameter			
	EP303-45T500E	EP303-100G600E2	EP-45T500E2	EP-45T1000E2
基材 Base	PET			
颜色 (color)	透明 Transparent	绿色 Green	透明 Transparent	透明 Transparent
胶面材质 Adhesive	硅胶 Silicone gel		亚克力胶 Acrylic gel	
总厚度 (um) Total thickness	45	90	45	45
剥离力 (gf/ inch) Peel strength	500±50	600±50	500±50	1000±200
表面电阻 (ohms) Surface resistance	10 ⁶⁻⁸			
解卷电压 (V) @ 300mm/min Unwinding voltage	<100			
使用温度 (°C) Operation temp	-10 ~ 180	-10 ~ 180	-10 ~ 130	-10 ~ 130

备注：宽度可根据客户要求进行分切。 Note: The width can be customized.

应用环境 Applications

适用于半导体及相关产业，光学电子产品表面防护及非防静电材料表面遮蔽使用。

Usually apply to optical product surface protection and non-ESD material shielding in semiconductor or related industries.

PET high viscose tape PET 高粘胶带



Description

产品概况

ESTEE-EPH 系列为防静电高粘 PET 胶带，以 PET 为基材，胶层厚度、胶水粘力均可调整，单面、双面胶层均可制作，具有超薄、强粘、透明、无痕的特性，采用防静电胶水，胶面阻抗、剥离电压性能优异。

ESTEE-EPH series is a kind of antistatic high viscosity PET tape, base on PET, adhesive thickness, glue adhesion can be adjusted, can be made single or double side, with ultra-thin, strong sticky, transparent no trace characteristics, adopt anti-static glue, excellent surface resistance and peeling voltage performance.

Features and Parameters

产品性能参数

管控项目 Control Item	技术参数 Technical Parameter
	型号: EPH- 厚度 -PET 颜色 - 粘力 / 第二面粘力 - 防静电 - 离型膜 Model: EPH-Thickness- PET color-Stickiness/ Second side stickiness-ESD-Release film
基材 Base	PET
颜色 Color	透明 / 蓝色 Transparent/ Blue
厚度范围 (um) Thickness (um)	20~150
胶层结构 Glue structure	单面 / 双面 Single / double sided
剥离力 (gf/ inch) Peel strength	1000~2300
表面电阻 (ohms) Surface resistance	10^{6-8}
解卷电压 (V) @ 300mm/min Unwinding voltage	<100
使用温度 (°C) Operating temp.	<200

备注：1. 胶面保护离型膜为透明 PET 离型膜，其他颜色、材质的离型膜可定制；

2. 宽度可按客户要求分切；

1. Adhesive surface is transparent PET release film, release films of other colors and materials can be customized

2. The width can be customized.

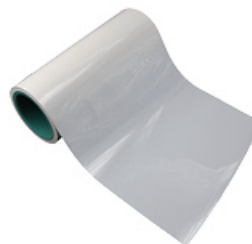
Applications

应用环境

适用于耳机、话筒附件、FPC 的粘接，数码相机反光膜的固定；LCD 反光片与背光膜组之间的固定等

Applied to bond earphones, microphone accessories, FPC, fix of reflective film for digital cameras; fix between LCD reflectors and backlight film sets, etc.

Anti-static silicon release liner
防静电硅离型膜



Description

产品概况

EM 系列是一款双面防静电（防静电性能耐酒精擦拭）离型膜，该产品具有良好的防静电性能及离型效果。
EM series is a double-side antistatic (Alcohol tolerance) liner, which has excellent antistatic and release performance.

Features and Parameters

产品性能参数

管控项目 Control Item	技术参数 Technical Parameter
	型号: EM-厚度-PET 颜色-离型力/第二面离型力-防静电性能 Model: EM-Thickness- PET color-Release degree/ Second side Release degree-ESD
基材 Base	PET
颜色 Color	透明 / 蓝色 / 红色 / 哑色 / Transparent/ Blue/Red/Dull
基材厚度 (um)Base thickness	25/36/50/75/100
离型面 Release side	单面离型 / 双面离型 Single-sided release/Double-sided release
离型力 (gf/ inch) Release degree	1-3/2-5/5-10/10-15/15-25/25-35/35-45/50-60/60-80/70-90/90-110/110-140/140-160/180-220
表面电阻 (ohms)Surface resistance	10^{5-9}
胶损失率 (loss rate of adhesive force)	<10%
解卷电压 (V) @ 300mm/min Unwinding voltage	<30
使用温度 (° C) Operating Temp	-10 ~ 70

备注：宽度可根据客户要求分切。厚度和离型力可根据客户要求定制。

Note: The width can be customized.The thickness and release degree can be customized.

Applications

应用环境

广泛应用于智能手机、LCD/PDA、医疗、半导体、汽车电子等胶带生产及模切行业。

Widely applied to adhesive production and die-cutting in smart phone, LCD/PDA, Medical, semiconductor, automotive electronics industries.

Fluorine release liner 氟素离型膜



产品概况 Description

LF 系列是一款氟素离型膜，该产品具有良好的耐热耐湿性，防潮，防油，起到保护硅胶胶面的作用，并且可做到良好的防静电性能，避免剥离时产生静电，对电子产品起到 ESD 防护的作用。

LF series is a fluorine release liner, which has excellent thermal tolerance and dampproof, oilproof to protect the silicone surface, and has good antistatic performance, avoiding static electricity during peeling, ESD protection for electronic products.

产品性能参数 Features and Parameters

管控项目 Control Item		技术参数 Technical Parameters				
		LF50T3	LF50T8	LF50T8E	LF50T8E2	LF50T8/8E2
离型剂 Release agent		非硅离型剂 non-silicone release agent				
基材材质 Base		PET				
基材厚度 (um) Thickness		50				
离型力 (gf/ inch) Release degree	Side A	1~5	5~10	5~10	5~10	5~10
	Side B	/	/	/	/	5~10
表面电阻 (ohms) Surface resistance		/	/	10 ⁶⁻⁸ (非离型面 Non-Rel side)	10 ⁶⁻⁸ (双面 Double side)	
解卷电压 (V) Unwinding voltage		/	/	<100	<100	

备注：宽度可根据客户要求进行分切。基材材质，厚度均可按客户要求进行定制。

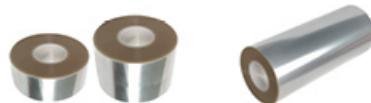
Note: The width can be customized. The base and thickness can be customized.

应用环境 Applications

广泛应用于高温胶，硅胶双面胶贴合，模切加工成型等其他特殊工艺。

Widely applied to high-temp tape, silicone double-sided bonding, die-cutting and other special processes.

Non-silicon release liner 非硅离型膜



产品概况 Description

NSI 系列是一款非硅离型膜，该产品具有离型力稳定，涂布均匀，无明显涂布痕迹，并且可做到良好的防静电性能，避免剥离时产生静电，对电子产品起到 ESD 防护的作用。

NSI series is a Non-silicon release liner, which has steady release degree, no silicon transfer, uniform coating, no obvious coating traces, and can achieve good antistatic performance, avoiding static electricity during peeling, ESD protection for electronic products.

产品性能参数 Features and Parameters

管控项目 Control Item		技术参数 Technical Parameters		
		NSI50T30	NSI50T30E	NSI50T30E2
离型剂 Release agent		非硅离型剂 non-silicone release agent		
基材材质 Base		PET		
基材厚度 (um) Thickness		50		
离型力 (gf/ inch) Release degree		30		
表面电阻 (ohms) Surface resistance		/	10 ⁶⁻⁸ (非离型面 Non-Rel side)	10 ⁶⁻⁸ (双面 Double side)
解卷电压 (V) Unwinding voltage		/	<100	<100

备注：宽度可根据客户要求进行分切。基材材质，厚度均可按客户要求进行定制。离型力测试使用 Nitto 31B 胶带，30mins 剥离测试。

Note: The width can be customized. The base and thickness can be customized. Release degree test use Nitto 31B tape, 30mins peeling test.

应用环境 Applications

广泛应用于无硅要求的制程，及非硅胶带的胶面保护等。

Widely applied to no silicone process, and protect non-silicone surface.

Antistatic Barcode Tape
防静电耐高温条码专用胶带



产品概况 Description

ESTEE-BC 系列 是一款防静电条码专用胶带, 该产品具有良好的印刷附着性、耐温性、防静电性能, 适用于高温制程后需移除且无残胶、标签不起皱、印刷字体不脱落的制程使用。

ESTEE-BC series is a kind of antistatic barcode tape, which has excellent printing adhesive performance, thermal tolerance, antistatic performance, widely applied to high temp process and after removing no residue, no wrinkles, printing remains.

产品性能参数 Features and Parameters

管控项目 Control Item	技术参数 Technical Parameter		
	BC -55PIW500EL	BC -45W500EL	BC -70W500EL
颜色 Color	白色 White		
总厚度 (um) Total thickness	55	45	70
剥离力 (gf/ inch) Peel strength	500±50		
表面电阻 (ohms) Surface resistance	10 ⁶⁻⁸		
解卷电压 (V) @ 300mm/min Unwinding voltage	<100		
使用温度 (°C) Operation temp	<260	<120	

备注: 可配合标签尺寸, 定制模切对应尺寸的卷装标签纸。

Note: Dimension and shape can be customized.

应用环境 Applications

适用于半导体及相关产业, 光学电子产品高温制程中的标签打印、粘贴需求。

Widely applied to high temperature process label printing and sticking in semiconductor, electros and related industries

Anti-static Silicon Free Tape
防静电非硅胶带



产品概况 Description

ESTEE-EP 系列是一款防静电无硅胶水类 PI 胶带, 该产品具有良好的耐温性及防静电性能, 适用于无硅制程高温后需移除且无残胶的表面保护用。

ESTEE-EP series is a kind of antistatic silicon free gel PI tape, which has excellent thermal tolerance and anti-static performance, widely applied to silicon free high temperature process, and no residue after removing the tape.

产品性能参数 Features and Parameters

管控项目 Control Item	技术参数 Technical Parameter					
	EP-50PI500 E2	EP-75PI500 E2	EP-80PI600 E2	EP-50PI500 E2L	EP-75PI500 E2L	EP-100PI600/600 E2L
剥离型膜 liner	NO	NO	NO	YES	YES	YES
胶面材质 Adhesive	非硅胶水 Silicone free gel					
总厚度 (um) Total thickness	50	75	80	50	75	100
剥离力 (gf/ inch) Peel strength	500±50		600±50	500±50		600±50
表面电阻 (ohms) Surface resistance	10 ⁶⁻⁸					
解卷电压 (V) @ 300mm/min Unwinding voltage	<100					
使用温度 (°C) Operation temp	-10 ~ 260					

备注: 宽度可根据客户要求进行分切。Note: The width can be customized.

应用环境 Applications

适用于无硅产品的电路板、PCB 金手指等在回流焊接, 波峰焊接, 返修等过程中的保护, 适用与 5G 产品防护使用。

Widely applied to silicon free products protection in reflow, wave-flow and repairing, such as PCB, PCB golden fingers, suitable for 5G products.

防静电包装材料

Anti-static Packaging Material



Anti-static Plastic Carrier Tape 防静电塑胶载带

产品描述 Description

EM90系列防静电塑胶载带：具有出色的机械强度平衡性和成型性，能适应复杂形状和深度成型，成型精度高（ $\pm 0.05\text{mm}$ ）防静电性能良好，可应用于包装保护高端电子元器件（如IC）用。

EM90 series antistatic plastic carrier tape: with excellent mechanical balance and forming properties, which adapt to complex shape and depth, high forming accuracy ($\pm 0.05\text{mm}$), excellent antistatic performance, applied to high end electronic devices (IC) packaging.

产品性能参数 Features and Parameters

管控项目 Control Item	技术参数 Technical Parameters	
	EM901	EM903
材质 Base	PS	PC
常用厚度 (mm) General thickness	0.3-0.5	
常用宽度 (mm) General width	8、12、16、24、32、44、56、72	
表面电阻 (Ω) Surface resistance	$10^4 - 10^8$	
摩擦电压 (V) Abrasive voltage	<100	
最小中孔尺寸 (mm) Min middle hole dimension	0.15	

备注：成型尺寸可根据客户要求设计。

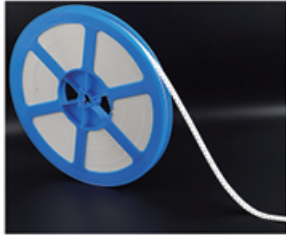
Note: Forming size and dimension can be designed and customized.

应用环境 Application

适用于高端IC、电阻、电感、电容、连接器、二、三极管等SMT电子自动贴片组件的包装。

Widely applied to high-end IC, resistor, inductor, capacitor, connector, diode, triode and etc. SMT automatic PnP component packaging.

Paper Carrier Tape
纸质载带



产品描述 Description

EM902纸质载带：具有出色的机械强度平衡性和成型性，能适应复杂形状和深度成型。可应用于微小器件，尺寸要求高的包装保护使用。
EM902 paper carrier tape: with excellent mechanical balance and forming properties, which adapt to complex shape and depth, applied to ultra small parts with high packaging requirement.

产品性能参数 Features and Parameters

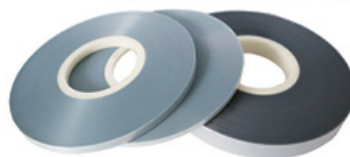
管控项目Control Item	技术参数Technical Parameters
材质 Base	日本原纸ELLEAIR Paper
常用厚度 (mm) General thickness	0.42
常用宽度 (mm) General width	8、12
摩擦电压 (V) Abrasive voltage	<100
最小中孔尺寸 (mm) Min middle hole dimension	0.15

备注：成型尺寸可根据客户要求设计。
Note: Forming size and dimension can be designed and customized.

应用环境 Application

应用于高端IC、连接器、金属制品等微小器件SMT电子自动贴片组件的包装。
Widely applied to high end IC, connector, diode, metal component and etc. SMT automatic PnP component packaging.

-Antistatic Heat-Sealing Cover Tape
防静电热封上盖带



产品描述 Description

EM90系列 防静电热封上盖带：热封性能好，粘接牢固，剥离力偏差小，防静电性能/防粘性能优良，适合 IC 等高要求封装条件的封装等。
EM90 series antistatic heat-sealing cover tape: excellent heat-sealing performance, reliable adhesive, stable peel force, excellent antistatic/anti-adhesion performance, which applied to strict package requirement, such as IC packaging.

产品性能参数 Features and Parameters

管控项目Control Item	技术参数Technical Parameters		
	EM900D	EM900F	EM900G
热合温度 (°C) Heat-sealing temp	150-180		
封合压力 (MP) Heat-sealing pressure	0.3-0.5		
封合时间 (s) Heat-sealing time	0.2-0.3		
厚度 (um) Thickness	50		
常用宽度 (mm) General width	5.3, 9.3, 13.3, 21.3, 25.5, 37.5, 49.5, 65.5		
常用长度 (m) General length	500		
表面电阻 (Ohms) Surface resistance	$10^5 \sim 10^8$		
摩擦电压 (V) Abrasive voltage	<100		
适用器件尺寸	微小 Ultra-small size	小 Small size	中 General size

应用环境 Application

配合载带使用。

To match with carrier tape.

-Antistatic Self-adhesive Cover tape
防静电自粘上盖带



产品描述 Description

EM900A系列 防静电自粘上盖带：粘连性能好，粘接牢固，剥离力偏差小，防静电性能/防粘性能优良，适合 IC 等高要求封装条件的封装等
EM900A series antistatic self-adhesive cover tape: excellent adhesive performance, reliable adhesive, stable peel force, excellent antistatic/anti-adhesion performance, which suit for strict package requirement, such as IC packaging.

产品性能参数 Features and Parameters

管控项目Control Item	技术参数Technical Parameters	
	EM900A	EM900A-E
封合压力 (KG) Sealing pressure	2~5	
封合速度 (mm/s) Sealing speed	30~50	
常用宽度 (mm) General width	5.3, 9.3, 13.3, 21.3, 25.5, 37.5, 49.5, 65.5	
常用长度 (m) General length	200	
表面电阻 (Ohms) Surface resistance	/	$10^5 \sim 10^8$
摩擦电压 (V) Abrasive voltage	/	<100
使用温度 (°C) Operating temp	<50	

应用环境 Application

配合载带使用。

To match with carrier tape.

Anti-static Package Bag
防静电包装袋



产品概况 Description

ESTEE-Bag 系列防静电包装袋具备防静电、屏蔽、防潮、缓冲四大功能，外表面为永久性防静电，封口牢固，各层材料之间复合能力强；满足 RoHS 和 HF 要求。

ESTEE-Bag series antistatic packaging bag, with antistatic, shielding, moisture-proof, buffering functions, outside antistatic permanently, reliable sealing in each layers, in comply with RoHS & HF restriction.

产品性能参数 Features and Parameters

管控项目 Control Item		技术参数 Technical Parameter					
		Bag605	Bag 605S	Bag 606	Bag 608	Bag 609	Bag 615
功能 Function		铝箔袋 Aluminum bag		屏蔽袋 Shielding bag	镀铝气袋 Aluminum plating bag	真空包装袋 Vacuum packaging bag	铝箔气泡袋 Aluminum bubble bag
结构 Construction		3层 3layers	4层 4layers	2层 2layers	2层 2layers	2层 2layers	5层 5layers
颜色 Color		银灰色 Silver gray					
表面电阻 (ohms) Surface resistance	内表面 Inside	10 ⁶⁻⁹					
	外表面 Out side						
静电屏蔽 ESD shielding	电压法 (volts) Voltage	< 10	< 30	/	/	< 10	
	能量法 (nJ) Energy	< 10	< 10	/	/	< 10	
静电消散时间 (s) (5000v-100v) Static decay		< 0.03	< 0.05	< 0.05	< 0.05	< 0.03	

注明：尺寸可以根据客户要求制作。Note: Dimension can be customized.

应用环境 Applications

适用于电子产品 EPA 区域外各类 PC 板、IC 集成电路、光驱、硬盘、电子元器件等的包装。

Widely applied to various PC board, IC, optical drivers, hard drivers, electronic devices packaging beyond EPA area.

Antistatic PET plastic sheet
防静电 PET 吸塑片材



产品概况 Description

EM 片材系列为防静电 PET 吸塑片材：是使用导电型高分子聚合物在片材上进行涂布而生产出来的，具有高透明性，永久防静电，并且防静电性能不受湿度影响满足 RoHS 以及 HF。

EM series antistatic PET plastic sheet: using conductive polymers coated on the sheet material and has high transparency, permanent anti-static, and anti-static properties that are not affected by humidity, in comply with RoHS and HF restriction.

产品性能参数 Features and Parameters

管控项目 Control Item		技术参数 Technical Parameter		
		EM-厚度 -BRE2	EM-厚度 -GE2	EM-厚度 -TE2
颜色 Color		褐色 Brown	绿色 Green	透明 Transparent
厚度 (mm) Thickness		0.1~2		
拉伸强度 (N/15mm) Tensile strength	纵向 Vertical	>55		
	横向 Horizontal			
表面电阻 (ohms) Surface resistance		10 ⁶⁻⁸		
摩擦电压 (V) Abrasive voltage		<100		

应用环境 Applications

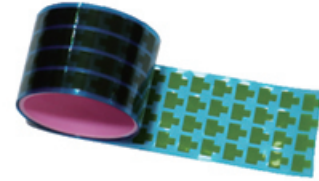
适用于有防静电要求的元器件，LCD / LCM，电子组件等的包装，存储，运输及周转。

Suitable for all ESD requirement devices, such as LCD/LCM, assembled electronic devices packaging, storage, delivery and transfer.

防静电模切制品

Antistatic Die-cutting Products

Customized Die-cutting Products
定制模切品



产品描述 Description

防静电模切制品主要包含，SMT接料片，条码标签模切品，及客户定制的模切制品，广泛用于智能手机、平板电脑、汽车电子等行业的FPC（柔性电路板）、OLED背胶保护、SIP EMI溅渡工艺等制程。

Antistatic die-cutting products mainly include: SMT dissipative slice, barcode tape, customized products which widely applied to protect FPC, OLED back side adhesive, SIP EMI sputtering process in smart phone, flat panel, automotive electronic industries.

模切工艺 Die-cutting process

- 热压折弯 Hot press bending
- 生产无刀痕 Production without blade vestige
- PSA模切 PSA die cutting
- 软板凸包工艺等 Soft plate convex package process

配合高精度16工位圆刀机，可确保模切产品的品质及效率；

With high precision 16 position cutter, to ensure the quality and efficiency of die cutting products;



防静电模切制品

Antistatic Die-cutting Products

SMT Dissipative Slice SMT接料片



产品描述 Description

EM01/06系列 防静电接料片是一款由防静电PET高粘胶带组成，在胶带两边压有数个定位点，接料时采用产品两边的定位点定位，无需其它辅助工具。良好的防静电性能，对于静电敏感性元器件有一定的防护作用。

EM01/06 series antistatic dissipative slice is consist of ESD PET high adhesion tape, with several positioning hole in two side to help alignment, excellent antistatic performance, to protect ESD sensitive component from electrostatic damage.

产品性能参数 Features and Parameters

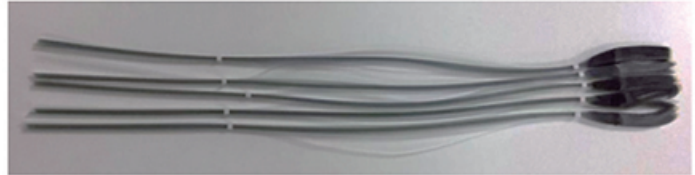
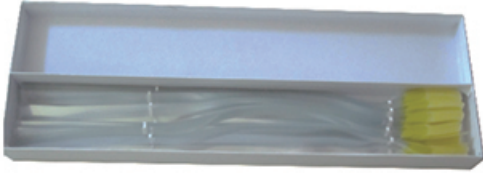
管控项目 Control Item	技术参数 Technical Parameters							
	EM0108E	EM0112E	EM0116E	EM0124E	EM0108	EM0112	EM0116	EM0124
适用载带规格 (mm) Suit for carrier tape size	8	12	16	24	8	12	16	24
厚度 (um) Thickness	55							
颜色 Color	黑色 Black				黄色 Yellow			
接料片表面阻值 (ohms) Surface resistance	10 ⁻⁸				/			
解卷电压 (V) @ 300mm/min Unwinding voltage	<100				/			

应用环境 Application

适用于SMT接料中不停机料盘连接。

Application: Applied to SMT no stop PnP process to connect tape and reel material.

SMT Dissipative Slice Tape SMT接料引带



产品描述 Description

EM06系列 防静电接料引带是一款由防静电PET保护膜，防静电接料胶带组成，专为调机转线续料，节省损耗的专用接料带，胶带粘性强，完全利用剩余料件，减少损耗，操作简单。良好的防静电性能，对于静电敏感性元器件有一定的防护作用。

EM06 series antistatic dissipative slice tape is made up of PET protective film and antistatic dissipative slices, which specialized for SMT tuning or changing material to save components, with stable adhesive to make full use of the left material and reduce wear and tear, easy to operate. Excellent antistatic performance provide electrostatic protection to electrostatic sensitive component.

产品性能参数 Features and Parameters

管控项目 Control Item	技术参数 Technical Parameters							
	EM0608E	EM0612E	EM0616E	EM0624E	EM0608	EM0612	EM0616	EM0624
适用载带规格(mm) Adapt for carrier tape size	8	12	16	24	8	12	16	24
长度 (mm) Length	396							
颜色 Color	黑色 Black				黄色 Yellow			
表面阻值(ohms) Surface resistance	10^{6-8}				/			
解卷电压(V) @ 300mm/min Unwinding voltage	<100				/			

应用环境 Application

广泛适用于SMT接料中不停机料盘连接。

Widely applied to SMT PnP process to connect tape and reel material without stop the equipment.

防静电辅材

Anti-static Accessories

Dual-circuit Wrist Strap 双回路腕带



产品描述 Description

SP00系列双回路腕带：由防静电松紧带、活动按扣、弹簧软线、保护电阻、音频插头组成。松紧带的内层用防静电纱线编织，外层用普通纱线编织。配合SP012/013通过手腕带将人体有效接地，起到人体静电防护的作用。

SP00 series dual circuit wrist strap: the part included ESD elastic tape, active buckle, spring soft wire, protective resistor and audio plug. The inner layer of the elastic belt is woven with antistatic yarn and the outer layer is woven with ordinary yarn.

Match with SP012/013 to effectively achieve human grounding and static protection by wrist.

产品性能参数 Features and Parameters

管控项目Control Item	技术参数Technical Parameters		
	SP002	SP003	SP005
手环颜色Strap color	深蓝色Dark blue	黑色Black	淡蓝色Dark blue
连线系统电阻 (Ohms) System resistance	1 M ± 10%	1 M ± 10%	1 M ± 10%
腕带内表面电阻 (Ohms) Strap inside surface resistance	<100K	<100K	<100K
腕带外表面电阻 (Ohms) Strap inside surface resistance	>10M	>10M	>10M
卷线拉直长度 (m) Line length	2.5	2.5	2.5
手环长度 (两段) 长度 (mm) Strap length	11.5	11.5	11.5
卷线及注塑件颜色 Line color and injection molding color	黑色Black	黑色Black	黑色Black

Wrist Strap Receptacle 腕带插座



产品描述 Description

SP01/EI708系列系列腕带插座：由ABS塑胶注塑外壳、音频插座、红外线感应仪组成。与双回路手腕带配合使用，起到人体静电释放的作用。配合EI系列智能接地监控仪，可感应未佩戴手腕的人员，起到警示作用。

SP01/EI708series wrist strap receptacle: consists of ABS plastic injection shell, audio insert seat, and infrared sensor. With dual circuit wrist strap to guarantee human body static discharge. With EI series smart grounding monitor to detect OP didn't wear wrist strap.

产品性能参数 Features and Parameters

管控项目Control Item	技术参数Technical Parameters			
	SP012	SP012E	EI708A	EI708B
供电电压 (V) Voltage	/	/	5	12
红外线感应距离 (cm) Infrared sensor sensing distance	/		5-50	
颜色Color	白色White		黑色Black	
音频插座接地阻值 (Ohms) Audio seat grounding resistance	< 1			

防静电辅材

Anti-static Accessories

Stainless steel ground terminal 不锈钢接地端子排



产品描述 Description

SP010 不锈钢接地端子排：由不锈钢材质制作，使用M3螺母固定接地线，接线美观，维护方便，在远距离线之间的联接时主要是牢靠，施工和维护方便。

SP010 stainless steel ground terminal: Made of stainless steel, using M3 nuts to fix the ground line, beautiful wiring, convenient maintenance, reliable, easy to build and maintain when using long wire to connect..

4Antistatic Plastic SOP Sleeve 防静电SOP硬胶套



产品描述 Description

SP008系列防静电SOP硬胶套：是一款用途装SOP（A3、A4 SOP），该产品外层具有良好的防静电性能。

SP008 series antistatic plastic SOP sleeve: a kind of SOP sleeve to fit A3,A4 SOP, which has excellent antistatic performance outside.

Antistatic Rubber Band 防静电橡皮筋（捆绑带）



产品描述 Description

EP602 防静电橡皮筋（捆绑带）：由高性能的橡胶添加导电高分子聚合物混炼而成的混炼胶通过模压法、挤出法及共挤法成型。产品具有优异稳定的防静电性能。其防静电效果并不受环境温湿度影响，制品结构稳定。无添加物析出。

EP602 antistatic rubber band: Consists of high-quality rubber with conductive material via die, extrusion and co-extrusion process, which has excellent antistatic performance without effect by moisture, and stable structure. There is no additives precipitated.



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