

承认书

客户：合肥京东方视讯科技有限公司

品名：WiFi天线

料号：61005-00774

型号：SLK-BOE-3212H3-R-110I-B

机种：S4Pro收银机

日期：2023/12/18

供 应 商 签 核 SUPPLIER APPROVED SIGNATURES		
担当 PREPARED by	审查 CHECKED by	核准 APPROVED by
刘才亮	黄 震	林美财

供应商名称：深圳市亿圣邦科技有限公司

供应商地址：深圳市宝安区固戍前湾硬科技产业园C栋101

供应商电话：18025305599

供应商传真：0769-82553116

REVISION HISTORY
(产品变更明细书)

BOE

	PART NO. : 61005-00774		MODEL NAME:		S4Pro收银机	
NO.	DATE (日期)	REASONS FOR CHANGE (变更原因)	COTENT OF CHANGE (变更内容)		IMPORT TIME (导入时间)	WAY OF DISTINGUISH (变更后区分方式)
1	2023/12/18	首次建立	首次建立			
APPROVED			CHECKED	DESIGNED		DATE
林美财			黄震	刘才亮		2023/12/18

BOE

[illegible]

产品规格图面 产品环保要求:请在方框内打勾确认
是 ☐ 否 ☒ 无卤HF(Br<900ppm, Cl<900ppm, Br+Cl<1500ppm)



APPROVED	CHECKED	DESIGNED	DATE	PART NO. :	61005-00774
林美财	黄震	刘才亮	2023/12/18	MODEL NAME:	S4Pro收银机

是 ☐ 否 ☒ 无卤HF(Br<900ppm, Cl<900ppm, Br+Cl<1500ppm)

文件编号	SLK-BOE-3212H3-R-110I-B	单位: mm	版次	标记	更改描述	日期
			A1		新增物料	23-12-18

黑色1.13线，一代端子

端口朝下

技术要求:

- 1、FPC基材: PI, 阴影部分为铜箔, 正表面上**黑油**。
- 2、背胶型号: 3M300。
- 3、红色部位**铜外露**; 表面无油污, 杂质, 毛刺等。
- 4、手撕位离型纸切断勿伤及线路。
- 5、重要尺寸用“*”标注(制作模具要控制, 模具验收必测)。
- 6、Cable线黑色1.13, 线长110MM 一代端子。

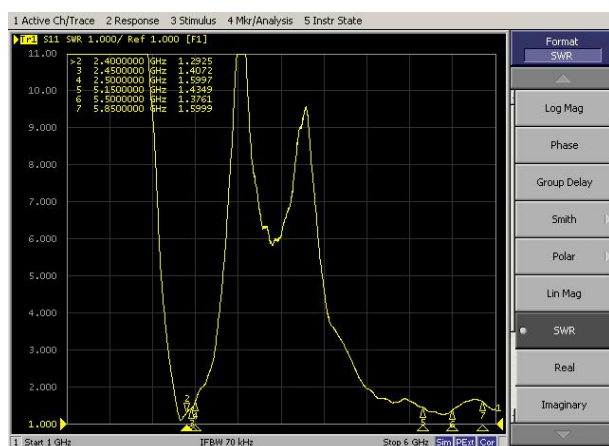
设计	刘才亮		名 称	
审核	范新竹		客户料号	61005-00724
批准	黄 震	重量	数量	比例
				1:1
		第 1 张 共 1 张	料 号	
			图 号	
		深圳市亿圣邦科技有限公司		

APPROVED	CHECKED	DESIGNED	DATE	PART NO. :	61005-00774
林美财	黄震	刘才亮	2023/12/18	MODEL NAME:	S4Pro收银机

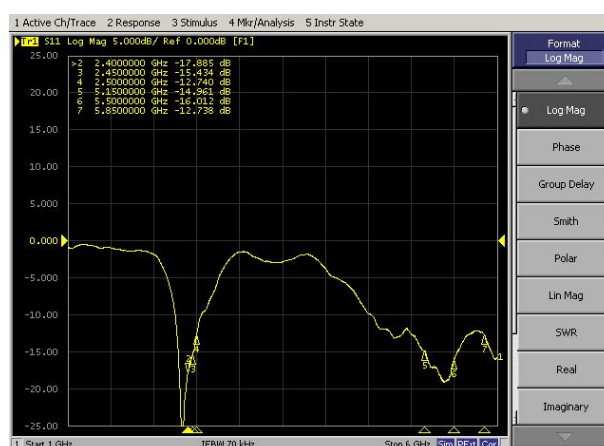
电气性能参数

特性 Characteristic	规格 Specifications	单位 unit
外形尺寸Dimensions	32.29*12.68*0.12	mm
频率范围Frequency Range(GHZ)	2.4-2.5+5.15-5.85	GHz
天线增益Antenna gain	2.4G : 2.37 5G : 2.92	dBi
输入阻抗Impedance(Ω)	50	Ω
天线类型Antenna type	PIFA Antenna	
匹配参数Matching parameter	N/A	
线长Line length	110 $\pm$ 3	MM
同轴电缆Coaxial cable	Black ϕ 1.13	MM
维持力Sustainability	>1Kg	Kg
工作温度Working temperature	-30 $^{\circ}$ C~70 $^{\circ}$ C	$^{\circ}$ C
存储温度Storage temperature	-30 $^{\circ}$ C~70 $^{\circ}$ C	$^{\circ}$ C

VSWR



Return Loss



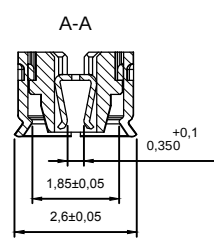
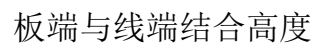
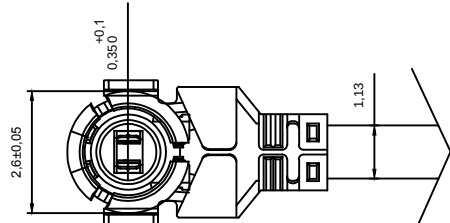
WIFI Antenna TRP/TIS

WIFI	CH	功率(11M)	灵敏度(11M)	WIFI	CH	功率(54M)	灵敏度(54M)
802.11b	1	16.4	-86.6	802.11g	1	16.93	-77.25
	6	16.64	-86.84		6	17.27	-77.98
	11	16.83	-86.19		11	17.6	-77.87
WIFI	CH	功率(MCS7)	灵敏度(MCS7)	WIFI	CH	功率(MCS7)	灵敏度(MCS7)
802.11n	1	16.9	-72.14	802.11n	36	15.05	-72.92
	6	17.25	-73.85		149	15.4	-72.62
	11	17.64	-72.12		165	14.61	-72.18
WIFI	CH	功率(54M)	灵敏度(54M)	WIFI	CH	功率(MCS7)	灵敏度(MCS7)
802.11a	36	15.99	-76.83	802.11ac 40M	36	15.81	-70.89
	149	16.16	-76.82		149	15.98	-70.95
	165	16.91	-76.34		161	16.51	-70.44

产品规格 Product Type		RF113/50 双锡线			
结构图 Structure Drawing					
结构特性 Structure Characteristics					
结构 Structure		项目 Item		标准值 Standard Value	
内导体 Inner Conductor		材质 Material		镀锡铜线 Tinned Copper Wire	
		结构 Construction(mm)		7/0.08	
		标称外径 Nom.Dia(mm)		0.24±0.02	
绝缘层 Insulation		材质 Material		聚全氟乙丙烯 FEP	
		标称外径 Nom.Dia(mm)		0.70±0.02	
外导体 Outer Conductor		材质 Material		镀锡铜线 Tinned Copper Wire 16*4/0.05	
		标称外径 Nom.Dia(mm)		0.92±0.05	
		编织覆盖率 Coverage Ratio(%)		90±5	
护套 Jacket		材质 Material		聚全氟乙丙烯 FEP	
		标称外径 Nom.Dia(mm)		1.13±0.05	
电气性能 Electrical Characteristics					
项目 Item		标准值 Standard Value	项目 Item	频率 Frequency	标准值 Standard Value
阻抗 Impedanc (Ω)		50±2	衰减 Attenuation@20℃ (dB/m)	1GHz	2.20
电容 Capacitance(pF/m)		98		2GHz	3.10
速率 Velocity(%)		70		3GHz	3.80
驻波比 VSWR		≤1.30@DC-6GHz		4GHz	4.40
最大工作电压 Max.Operating Voltage(V)		1000		5GHz	4.90
最大工作频率 Max.Operating Frequency(GHz)		6		6GHz	5.40
可靠性 Dependability					
最小弯曲半径(单次)Min.Bending Radius/Single			mm	5	
最小弯曲半径 (重复) Min.Bending Radius/Repeated			mm	10	
工作温度范围 Operating Temperature			℃	-55- +200	
包装 Packing					
包装方式 Packing Mode		纸盘 Papery Reel			
包装长度 The Length of Each Reel(m)		1000			
每盘段数 The Joints of Each Reel		≤5			
最小段长 Min. Segment Length(m)		≥10			
使用提示 Trips for Use					
存储环境 Storage Environment		温度：30℃以下，湿度：20-65%			
最佳保存周期 The Best Save Cycle		2 个月，2 个月以上上锡效果变差，但电性能不受影响，夏季高温高湿环境开剥后需尽快流转			
加工温度 Processing Temperature		可短时承受 260℃的高温，300℃以上易发生分解，400℃以上发生显著的热分解			
铁氟龙收缩 Teflon Shrink		材料的固有属性，绝缘 0.2mm 以下，护套 0.3mm 以下			
护套窜动 Jacket Taaverse		加工长度（护套残留长度）低于 5CM 时易发生			

A cross-sectional diagram of a coaxial cable. The central core is labeled "DIELECTRIC CORE" and has a diameter of 0.67. Surrounding the core is a layer of "OUTER CONDUCTOR SILVER PLATING" with a thickness of 0.94. This is followed by a "JACKET" layer. The total outer diameter of the cable is 1.90. The jacket has a thickness of 0.93. The inner conductor is labeled "INNER CONDUCTOR SILVER PLATING" and has a diameter of 1.16. The overall outer diameter of the inner conductor assembly is 0.26, with a tolerance of ± 0.08 (AWG32(7/0.08)).

CUSTOMER DRAWING



DESCRIPTION

NO	DESCRIPTION	QTY	UNIT
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CHANG CHUN PLASTICS CO., LTD.

NO. 301, SONGKIANG ROAD, 7TH FL., TAIPEI, 10477 TAIWAN
TEL : 886-2-2503-8131 (REF) FAX : 886-2- 2501-8018

Engineering Plastics Polybutylene Terephthalate

Technical Data

CCP PBT 3030-201

PBT glass fiber 30% reinforced injection moulding grade.

Characteristics

- 1)excellent electrical property
- 2)excellent temperature resistance, high heat distortion temperature.
- 3)excellent mechanic and chemical property
- 4)excellent weatherability
- 5)excellent wear property
- 6)excellent moldability
- 7)High resistance to fuels, oil, fats and many solvents

Injection Moulding Condition

Cylinder temperatures	: 240-270℃
Nozzle temperature	: 260-270℃
Mould temperature	: 40-120℃, suitable temperature 60-80℃
Injection rate	: middle - fast
Screw speed	: 60-120 rpm, to be chosen in such a way that plasticizing time is just within cooling time.
Pressure	Injection pressure : 500-1200 kg/cm ² Holding pressure : 300-800 kg/cm ² Back pressure : 0-3 kg/cm ²
Mould shrinkage	Mould shrinkage 1.6 mm thickness horizon is 0.2-0.5% and vertical is 0.8-1.4% under the test method ASTM D955.

Packaging

25 kg/ paper bag .

Material handing

Moisture pick-up from ambient air should be avoided. Keep hopper properly closed.

CHANG CHUN PLASTICS CO., LTD.

NO. 301, SONGKIANG ROAD, 7TH FL., TAIPEI, 10477 TAIWAN
TEL : 886-2-2503-8131 (REF) FAX : 886-2- 2501-8018

Engineering Plastics Polybutylene Terephthalate

CCP PBT 3030-201

Property	Value	Unit	Test method ASTM
Glass Fiber Content	30	%	
Specific gravity	1.51	-	D792
Melting point	225	°C	DSC
Coef. of linear thermal expansion	3	10 ⁻⁵ cm/cm°C	D696
Heat deflection temperature under load			
--- 18.6 kg/cm ²	210	°C	D648
--- 4.6 kg/cm ²	220	°C	D648
Moisture absorption (24h)	0.04	%	D570
Flammability acc. to UL94, 0.8 mm thickness	HB	-	UL94
Tensile strength	1300	kg/cm ²	D638
Tensile elongation	4.0	%	D638
Flexural strength	1950	kg/cm ²	D790
Flexural modulus	82000	kg/cm ²	D790
Izod impact strength - notched 1/4"	9.5	kg-cm/cm	D256
Hardness - rockwell	121	R	D785
Dielectric strength, 2 mm thickness	22	KV/mm	D149
Volume resistivity	10 ¹⁵	Ω-cm	D257
Surface resistivity	10 ¹³	Ω	D257
Dielectric constant	3.7	60Hz	D150
Dielectric dissipation factor	0.001	60Hz	D150
Arc resistance	100	SEC	D495

(1) For reference only

(2) All data in the table are the typical values of the material and not the minimum values of the material specifications.

Material safety data sheet

一、Goods and manufacturer information

Item name: Halogen-free polyimide copper foil substrate(Halogen-free PI -CCL)
Item number: SHIS or SHID
Name of the manufacturer or supplier / Address / Telephone/Portraiture: Suzhou Serengeti Electronic Material Co., Ltd. /NO. 168 north Taiping road, Taicang city , Jiangsu Province, China/0512-5337 8333/0512-5337 8355
Emergency contact number/Phototelephony : 0512-5337 8333/0512-5337 8355

二、Component identification data

Pure substance :

Chinese and English names:	1. Halogen-free epoxy resin adhesive 2. Polyimide film 3. 3. Copper foil
Synonymous name:	-
Chemical Abstracts Agency Registration Number(CAS No.):	1. (Halogen-free epoxy resin adhesive) 24969-06-0 25% ~ 41.2% 2. (Polyphenylene amine membrane) 25038-81-7 17.4% ~ 39.6% 3. (Copper foil) 7440-50-8 28.7% ~ 48%
Hazardous substance composition(percentage composition):	< 15(Halogen-free epoxy resin adhesive)

三、Hazard identification data

Most important harm and effect	Health hazard effect: No harm to the human body.
	Environment effects: -
	Physical and chemical harm: -
	Special harm: -
Cardinal symptom: -	
Hazardous classification of articles: -	

四、Emergency treatment

First aid methods for different ways of exposure:
Inhalation: There is no way to inhale the film.
Skin contact: No stimulation.
Eye contact: No volatiles are allowed to touch.
Ingestion: There is no possible way for the film.
Most important symptoms and harmful effects: -
Protection of first aid personnel: -
Tips for doctors: -

五、Fire extinguishing measures

Applicable fire-extinguishing agent: Use a fire extinguishing agent suitable for isolating the fire site.
Special hazards that may be encountered at the time of fire-fighting: Inhalation of high-temperature pyrolysis substances.
Special fire-fighting program: -
Special protective equipment for firefighters: Wear air respirator and

protective gloves and fire-fighting clothes.

六、Emergency strain of leakage

Individual considerations: Use of personal protective equipment.

Environmental consideration: -

Cleaning method: -

七、Safety disposal and storage method

Handle: When operating, isolate from food and beverage.

Lay in: Store in a cool, dry and well-ventilated place.

八、Exposure prevention measures

Engineering control: -

Controlling parameter:

Average allowable concentration of eight hours per day/Short time average allowable concentration/Maximum allowable concentration: -

Biological index: -

Personal protective equipment:

Respiratory protection : A dust-proof mask.

Hand protection : Gloves.

Eye protection: Safety glasses.

Skin and body protection: -。

九、Physical and chemical properties

Material state:	Solid body	Form:	Membrane shape
Pigment:	Light brown ~ Dark brown(PI side)	Smell:	not have
PH value :	N/A	Boiling point/Boiling spread :	N/A
Decomposition temperature :	N/A	Flash point :	N/A test method : Open cup Closed cup
Autogenous ignition temperature :	N/A	Explosion limit :	N/A
Vapour pressure:	N/A	Vapour density :	N/A

十、Stability and reactivity:

Stability:	Stable under normal condition
Possible hazardous reactions in special conditions:	-
The situation to be avoided:	-
Substance to be avoided:	-
Hazardous decomposition products:	High thermal decomposition to produce nitrogen, phosphorus oxidation gas.

十一、Toxic data

Acute toxicity:	N/A
Local effect :	N/A
Sensitivity:	N/A

Chronic or long-term toxicity:	N/A
Special effects :	N/A

十二、Ecological data

Possible environmental impact/Environmental flow cloth:	-
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十三、Disposal method

Handle according to local environmental laws and regulations.

十四、Transport information

International shipping regulations:	Not available for IATA, ICAO. (Non-dangerous goods)
UN number :	--
Domestic transportation regulations:	--
Special delivery methods and matters needing attention:	--

十五、Regulatory data

Applicable regulations:	Applicable to RoHS, GP, WEEE.
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十六、Other data

Rdocument ation :	--		
Tabulating unit:	Name:	Suzhou Serengeti Electronic Material Co., Ltd.	
	Address/Telephone:	NO. 168 north Taiping road, Taicang city , Jiangsu Province/0512-5337 8333	
Lister:	Professional ranks and titles : Department Manager		Name: Long Huang
Tabulation date:	16 March, 2021		
Remarks:	The symbol "--" in the above data indicates that there is no relevant information at present. All data and data are used for reference only. Users should judge their availability according to the application requirements.		



Material Safety Data Sheet

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This material safety data sheet (MSDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a MSDS is not required for this product by the OSHA Hazard Communication Standard (29 CFR 1910.1200) because, when used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M™ 300LSE Adhesive Transfer Tapes: 8132LE, 8153LE, 9453FL, 9453LE, 9471FL, 9471LE, 9472FL, 9472LE, 9472LEU, 9653LE, 9671LE, 9672LE and 9698LE
MANUFACTURER: 3M
DIVISION: Industrial Adhesives and Tapes Division
ADDRESS: 3M Center, St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 03/27/13
Supersedes Date: 12/08/09

Document Group: 07-7168-3

Product Use:

Specific Use: Bonding & Attachment
Intended Use: Industrial use

SECTION 2: INGREDIENTS

Ingredient

Paper or Film Liner
Acrylic Polymer Adhesive

C.A.S. No.

Mixture
Trade Secret

% by Wt

Not Applicable
100

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Roll of Tape

Odor, Color, Grade: Translucent adhesive, slight acrylate odor, paper or film quick release liner

General Physical Form: Solid

Immediate health, physical, and environmental hazards: This product, when used under reasonable conditions and in accordance with the 3M directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

No health effects are expected.

Skin Contact:

No health effects are expected.

Inhalation:

No health effects are expected. This product may have a characteristic odor; however, no adverse health effects are anticipated.

Ingestion:

No health effects are expected.

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: No need for first aid is anticipated.
Skin Contact: No need for first aid is anticipated.
Inhalation: No need for first aid is anticipated.
If Swallowed: No need for first aid is anticipated.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature	<i>Not Applicable</i>
Flash Point	<i>Not Applicable</i>
Flammable Limits(LEL)	<i>Not Applicable</i>
Flammable Limits(UEL)	<i>Not Applicable</i>

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: No unusual fire or explosion hazards are anticipated.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Not applicable.

6.2. Environmental precautions

Not applicable.

Clean-up methods

Not applicable.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

7.2 STORAGE

Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Not applicable.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact.

8.2.2 Skin Protection

Avoid prolonged or repeated skin contact. Gloves not normally required.

8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

8.2.4 Prevention of Swallowing

Not an expected route of exposure.

8.3 EXPOSURE GUIDELINES

None Established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form:	Roll of Tape
Odor, Color, Grade:	Translucent adhesive, slight acrylate odor, paper or film quick release liner
General Physical Form:	Solid
Autoignition temperature	<i>Not Applicable</i>
Flash Point	<i>Not Applicable</i>
Flammable Limits(LEL)	<i>Not Applicable</i>
Flammable Limits(UEL)	<i>Not Applicable</i>
Boiling Point	<i>Not Applicable</i>
Density	<i>Not Applicable</i>
Vapor Density	<i>Not Applicable</i>
Vapor Pressure	<i>Not Applicable</i>
Specific Gravity	<i>Not Applicable</i>
pH	<i>Not Applicable</i>
Melting point	<i>No Data Available</i>
Solubility in Water	Nil
Evaporation rate	<i>Not Applicable</i>
Volatile Organic Compounds	<i>Not Applicable</i>
Percent volatile	<i>Not Applicable</i>
VOC Less H2O & Exempt Solvents	<i>Not Applicable</i>
Viscosity	<i>Not Applicable</i>

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid:

10.1 Conditions to avoid

None known

10.2 Materials to avoid

None known

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance

Hydrocarbons
Carbon monoxide
Carbon dioxide

Condition

During Combustion
During Combustion
During Combustion

Hazardous Decomposition: Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined.

CHEMICAL FATE INFORMATION

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Reclaim if feasible. If product can't be reclaimed, dispose of waste product in a sanitary landfill. Alternatively, incinerate the waste product in an industrial, commercial, or municipal incinerator.

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

Not regulated per U.S. DOT, IATA or IMO.

*These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M transportation classifications are based on product formulation, packaging, 3M policies and 3M understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and **not the packaging, labeling, or marking requirements**. The original 3M package is certified for U.S. ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.*

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - No Delayed Hazard - No

STATE REGULATIONS

Contact 3M for more information.

CHEMICAL INVENTORIES

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

Contact 3M for more information.

INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 0 **Flammability:** 1 **Reactivity:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Reason for Reissue: The MSDS has been revised because 3M has adopted the 16-section ANSI/ISO format. The potential hazards of the product have not changed. We encourage you to reread the MSDS and review the information.

Revision Changes:

Section 1: Product name was modified.

Section 1: Product use information was modified.

Section 16: Disclaimer (second paragraph) was modified.

Section 10: Hazardous decomposition or by-products table was modified.

Section 14: Transportation legal text was modified.

Page Heading: Product name was modified.

Section 9: Density information was modified.

Section 9: Vapor density value was modified.

Section 9: Vapor pressure value was modified.

Section 9: Boiling point information was modified.

Section 5: Flammable limits (UE) information was modified.

Section 5: Flammable limits (LEL) information was modified.

Section 5: Autoignition temperature information was modified.

Section 5: Flash point information was modified.

Section 9: Property description for optional properties was modified.

Section 9: Specific gravity information was modified.

Section 9: pH information was modified.

Section 9: Melting point information was modified.

Section 9: Solubility in water text was modified.

Section 9: Flash point information was modified.

Section 9: Flammable limits (LEL) information was modified.

Section 9: Flammable limits (UEL) information was modified.

Section 9: Autoignition temperature information was modified.

Section 2: Ingredient table was modified.

Section 10: Materials to avoid physical property was modified.

Section 10: Conditions to avoid physical property was modified.

Section 6: 6.2. Environmental precautions heading was added.

Section 6: 6.1. Personal precautions, protective equipment and emergency procedures heading was added.

Section 16: Web address was added.

Section 6: Personal precautions information was added.

Section 6: Methods for cleaning up information was added.

Section 8: Hand protection information was added.

Section 1: Address was added.

Copyright was added.
Company logo was added.
Section 6: Clean-up methods heading was added.
Telephone header was added.
Company Telephone was added.
Section 1: Emergency phone information was added.
Section 1: Emergency phone information was deleted.
Company Logo was deleted.
Copyright was deleted.
Section 16: Web address heading was deleted.
Section 6: Release measures heading was deleted.
Section 9: Property description for required properties was deleted.
Section 1: Address line 1 was deleted.
Section 1: Address line 2 was deleted.

DISCLAIMER: The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the MSDS available directly from 3M

3M USA MSDSs are available at www.3M.com

key part list (规格，厂商，用量)					BOE
序号	零部件名称	规格型号	材料	厂商	备注
1	FPC	PI FPC	PI	深圳市君毅翔电子科技有限公司	
2	线材	1.13双锡线	镀锡铜线+FEP	深圳市天迈通信技术有限公司	
3	连接器	RF 一代端子	镀金铜+PBT	惠州市奇富康电子有限公司	

BOE

测试项目	盐雾测试																			
产品规格型号	SLK-BOE-3212H3-R-110I-B	检测数量：5PCS																		
检测时间：2023-12-16		完成时间2023-12-18																		
试验/检验设备： HY-60D 盐雾测试仪 HP-8753ES网络分析仪																				
试验/检验条件： 盐雾箱内温度为35±2℃； 试验室温度22-30℃ 2.盐雾沉降速度经48H喷雾后每80cm 面积上为1-2ML/h氯化钠浓度为50± 10g/L，PH值为6.5/7.2																				
判定标准： 1. 电气测试符合标准要求： 电压驻波比测试合格； 2.金属表面镀层无氧化、剥落、裂痕、分离等不良； 非金属部分无变色、变形、脱胶、开裂等不良																				
<table><tr><td>样品编号</td><td>评价等级</td><td>不良描述</td></tr><tr><td>1</td><td>合格</td><td>无</td></tr><tr><td>2</td><td>合格</td><td>无</td></tr><tr><td>3</td><td>合格</td><td>无</td></tr><tr><td>4</td><td>合格</td><td>无</td></tr><tr><td>5</td><td>合格</td><td>无</td></tr></table>			样品编号	评价等级	不良描述	1	合格	无	2	合格	无	3	合格	无	4	合格	无	5	合格	无
样品编号	评价等级	不良描述																		
1	合格	无																		
2	合格	无																		
3	合格	无																		
4	合格	无																		
5	合格	无																		
试验/检验判定： ☒合格☐不合格☐不作判定																				
测试：王鑫源 审核：王国行																				

BOE

Change life with heart

3.拉力测试

测试项目	拉力测试																												
产品规格型号	SLK-BOE-3212H3-R-110I-B				检测数量：5PCS																								
检测时间：2023-12-18					完成时间：2023-12-18																								
试验/检验设备： 1.拉力测试计																													
试验/检验条件： 1.温度：18-25℃ 2.湿度≤70%RH																													
测试结果：合格																													
<table><tr><td>项目 条件</td><td colspan="5">端子与射频线缆之间的维持力>1kgf 射频线焊点与PCB之间的维持力>1kgf</td></tr><tr><td>测试次数</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td>端子维持力</td><td>1.33</td><td>1.32</td><td>1.35</td><td>1.31</td><td>1.32</td></tr><tr><td>焊点维持力</td><td>>1kgf</td><td>>1kgf</td><td>>1kgf</td><td>>1kgf</td><td>>1kgf</td></tr></table>						项目 条件	端子与射频线缆之间的维持力>1kgf 射频线焊点与PCB之间的维持力>1kgf					测试次数	1	2	3	4	5	端子维持力	1.33	1.32	1.35	1.31	1.32	焊点维持力	>1kgf	>1kgf	>1kgf	>1kgf	>1kgf
项目 条件	端子与射频线缆之间的维持力>1kgf 射频线焊点与PCB之间的维持力>1kgf																												
测试次数	1	2	3	4	5																								
端子维持力	1.33	1.32	1.35	1.31	1.32																								
焊点维持力	>1kgf	>1kgf	>1kgf	>1kgf	>1kgf																								
试验/检验判定： ☒ 合格 ☐ 不合格 ☐ 不作判定																													
测试：王鑫源			审核：王国行																										

BOE

用心改变生活

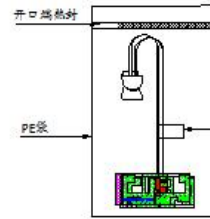
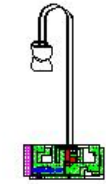
包装信息表

BOE

单个产品

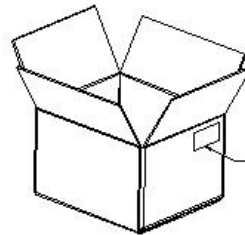


每扎25pcs



内袋包装说明:
1. PE袋包装, 每PE袋装100pcs.
2. PE袋进行封口.
3. 每袋需贴相应标签

外箱包装



外箱包装说明:
1. 外箱需贴1pc外箱标签,
2. 每箱装5000pcs产品;

京东方视讯科技有限公司

			
4300267028		底	
BOE料号	61005-00724	数量	300
物料名称	WiFi天线	UL号	
规格型号/材质	SLK-BOE-3212H3-R-1101-B		
生产日期	2023-12-05	毛重	1 KG
批次号	23120501	箱号	W0001
OQC判定	环保标志	BOE IQC判定	
供应商名称/代码		0001024573	
备注		深圳市亿圣邦科技有限公司	

外箱标签

包装信息

零件编码	61005-00724		
包装外尺寸	510*300*220	单箱净重	2.5千克
纸箱装入数	5000	单箱毛重	3.59千克
抗压值/kgf	350	耐破值/Kpa	15.2

辅料信息

序号	名称	规格	材质	用量
1	小鼓袋	16*24mm	PE	40
2	大骨袋	23*345	PE	8
3	纸箱	510*300*220	牛卡	1
4	隔板	490*290MM	牛卡	2
5	防潮剂	2g/包	硅胶颗	40
6				

通过包装测试: ☒ 跌落 (1A) ☒ 冲击 ☒ 碰撞 ☒ 振动 ☒ 路跑 (三级公路/300km)

☐ 环境测试 (测试条件:) 提供所做测试的报告

承诺: 供货方 (零件厂商名) 需保证包装设计的可靠性, 若该物料在海外运输中, 因包装保护不足导致品质异常, 皆由供货方 (零件厂商名) 承担。

供货方工程主管: 黄震

供货方品质主管: 郭亮

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环保要求

BOE

产品环保要求:请在方框内打勾确认 (FFC所用的所用的所有材料)

1、无卤HF(Br<900ppm, Cl<900ppm, Br+Cl<1500ppm)

是 ☐ 否 ☒

2、 ROHS 2.0 (ROHS2.0里的项目[铅及其化合物(Pb) 、六价铬及其化合物(Cr6 +)、镉及其化合物(Cd)、汞及其化合物(Hg)、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸二(2-乙基己)酯(DEHP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二丁酯(DBP)、邻苯二甲酸二异丁酯(DIBP)] ;

是 ☒ 否 ☐

3、 REACH (满足欧盟REACH所规范的化学成分)

是 ☒ 否 ☐

4、红磷

是 ☐ 否 ☒

5、SCCPs管控:ND(≤50ppm)

是 ☒ 否 ☐

短链氯石蜡 (SCCPs C ₁₀₋₁₃)	85535-84-8	ND(<50ppm)	即日	ISO 18219 : 2015	MCD、DOC、高风险 物料检测报告
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6、多环芳香烃PAHs管控 (18项)

是 ☒ 否 ☐

7、邻苯二甲酸管控 (17项) : 禁止所有邻苯二甲酸盐物质 ; 附录增加DnHP

是 ☒ 否 ☐

邻苯二甲酸管控 (见下表)	终端产品 : 1000ppm 邻苯每一项均小于1000ppm 邻苯总和小于1000 ppm	即日	IEC62321/EN62321及其他	MCD、DOC、高风险 物料检测报告
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1	邻苯二甲酸二丁酯 (DBP)	CAS#:84-74-2
2	邻苯二甲酸丁苄酯(BBP)	CAS#:85-68-7
3	邻苯二甲酸二 (2-乙基) 乙酯 (DEHP)	CAS#:117-81-7
4	邻苯二甲酸二正辛酯 (DNOP)	CAS#:117-84-0
5	邻苯二甲酸二异壬酯 (DINP)	CAS#:28553-12-0,68515-48-0
6	邻苯二甲酸二异癸酯 (DIDP)	CAS#:26761-40-0,68515-49-1
7	邻苯二甲酸二甲酯 (DMP)	CAS#:131-11-3
8	邻苯二甲酸二乙酯 (DEP)	CAS#:84-66-2
9	邻苯二甲酸二丙酯 (DPrP)	CAS#:131-16-8
10	邻苯二甲酸二异丁酯(DIBP)	CAS#:84-69-5
11	邻苯二甲酸二戊酯 (DPP)	CAS#:131-18-0
12	邻苯二甲酸二庚酯 (DHP)	CAS#:3648-21-3
13	邻苯二甲酸二环己酯 (DCHP)	CAS#:84-61-7
14	邻苯二甲酸二异辛酯(DIOP)	CAS#:27554-26-3
15	邻苯二甲酸二壬酯 (DNP)	CAS#:84-76-4
16	己二酸二异壬酯 (DINA)	CAS#:33703-08-1

APPROVED	CHECKED	DESIGNED	DATE	PART NO.:	61005-00724
林美财	黄震	刘才亮	2023/12/18	MODEL NAME:	产品机型

Declaration of conformity
符合性声明

BOE

本企业对所出货之零件做如下郑重声明：

- 1、本企业产品规格书填写内容及所提供检测报告、检测样品等真实有效；
- 2、本企业产品原辅材料来自于合格供应方，符合输入国或地区的法规（确认检测报告每年提供一次）及技术标准的要求；
- 3、本企业产品规格书提供的尺寸数据及出货检查等质量报告真实、准确，满足客户设计要求；
- 4、本企业承诺如有虚假将承担与此有关的一切法律责任。

签名：林美财

日期：2023-12-18



REACH 声明

BOE

承诺方：

我司充分认识到环境保护的重要性；并积极、努力的推进地球环境保护；响应客户目标、生产对环境无害的产品，为了达成环境保护品质目标，我们誓约诚信地执行下列事项：

- 1：我司生产的产品完全符合最新REACH法规要求。
- 2：若因我司提供的产品超出REACH法规要求，造成客户经济方面的损失或其他不预计的费用均由本公司承担。



公司名称：深圳市亿圣邦科技有限公司
签署签名：林美财
签署日期：2023-12-18