

PRODUCT SPECIFICATION

(產品規格書)

Ordering information

8952-A 2X1 C 15 PS 3 A

Series 2X1 C:Selective 15:15 μ” P:Press Fit Type 0:Without Light Pipes A:Tray Package
 Port Gold Plated 30:30 μ” S:Spring 1:Inner Light Pipe
 2:Outer Light Pipe
 3: Inner & Outer Light Pipe

X1:FEB.18/2015.(Q116)
 A1:DEC.24/2015 (P5~P9)
 A2:AUG.03/2016(P6)

PRODUCT NAME (產品名稱)	DOCUMENT No.: (文件編號)	Rev. (版本)	OUPIIN
SFP+ 2X1 Cage. R/A. Metal Shield Type Metal EMI Gasket&Light Pipe (RoHS)	8952spec-A2X1PS	A2(I665)	(歐品)
	Approved (核準)	Checked (審核)	Prepared (製作)
	Q.A. Section Chief	Joseph Yen	AUG.03/2016

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1. SCOPE (範圍)

This product specification defines the product performance and the test methods to ascertain the performance of the SFP+ 2X1 Cage. R/A. Metal Shield Type Metal EMI Gasket & Light Pipe, which is designed and manufactured by Oupiin Electronic Co.,Ltd.

(本產品規格書規定了由歐品電子有限公司生產的 SFP+ 2X1 Cage. R/A. Metal Shield Type Metal EMI Gasket&Light Pipe 型連接器,產品的特性及測試方法.)

2. REFERENCE DOCUMENTS (參考文件)

MIL-STD-1344A	Test method for electrical connector (電子連接器測試方法)
MIL-STD-202	Test method for electrical components (電子零件測試方法)
EIA364	Test method for electrical components (電子零件測試方法)

3. FEATURE & DIMENSIONS (特徵及尺寸)

3.1. PRODUCT DIMENSION (產品尺寸)

These connectors shall have the dimensions as shown in drawing.
(本產品的相關尺寸參考圖面.)

3.2. PCB/PANEL LAYOUT (印刷電路板佈局)

The recommended PCB layout is shown in drawing.
(本產品適用的 PCB layout 參考圖面.)

3.3. BILL OF MATERIAL (材料清單)

Harmful material control follow the requirement of RoHS. The bill of material and product number is described in drawing.
(有害物質控制符合RoHS指令要求.本產品使用的材料參考附件.)

3.4. MECHANICAL & ELECTRICAL CHARACTERISTIC (機械及電氣特性)

The connector shall have the mechanical and electrical performance as described in drawing.
(本產品的機械及電氣特性見圖面：)

3.5. PACKAGING (包裝)

Products shall be packaged according to requirements specified in purchase order for safe delivery, connector container and the packaging method are shown in package specification.
(產品可依客戶指定要求包裝, 包裝材料與包裝方式參見產品包裝規範。)

3.6 RATING CURRENT AND RATING VOLTAGE 額定電流與額定電壓

Rating current is 0.5A, rating voltage is 120V DC/AC RMS.

額定電流 0.5A，額定電壓 120V DC/AC RMS。

3.7 NON- OPERATING TEMPERATURE 使用溫度

Temperature range: -40°C~+85°C, including terminal temperature rise for rating current.

溫度範圍：-40°C~+85°C，包含接觸端子的額定電流溫升。

4. ENVIRONMENTAL (環境要求)

4.1. SOLDERABILITY (可焊性)

Connectors meet solder ability to MIL-STD-202. Finish shall be free of contaminants.

(產品可焊性符合 MIL-STD-202 標準規定的相關要求，表面不得有污染物.)

4.2. RESISTANCE TO SOLDER HEAT (耐焊接熱)

WAVE SOLDERING (波峰接) --NA (不適用)

5. PERFORMANCE AND TEST DESCRIPTION

(性能及測試)

5.1. REQUIREMENT (要求)

Product is designed to meet electrical, mechanical, and environmental performance requirements specified in **Table I**.

(本產品設計符合附表一所列的機械，電氣及環境要求.)

5.2. TEST CONDITION (測試條件)

Unless otherwise specified, all tests shall be performed at ambient environmental conditions.

(除非特別注明，所有測試在室溫條件下完成.)

5.3. SAMPLE SELECTION (樣品選擇)

Test samples shall be selected at random from current production. No test samples shall be reused. Samples are pre-conditioned with 10cycles of durability. Each group shall be containing 5 test samples.

(測試樣品從現生產的產品中隨機抽取，所有測試過的樣品不得重複使用。樣品已預先插拔10次，每組測試有5個樣品；)

Table I: Test Requirements and Procedures

(附錄一:測試要求)

Items (項目)	Requirements (要求)	Test Methods (檢測方法)
1. Confirmation of Product (產品確認)	Product shall be conforming to the requirements of applicable product drawing. (產品必須滿足相關檔的規定)	Check the dimensions and functions per applicable product drawing in your eyes. (目視，尺寸及功能依產品圖面檢查)
2. Contact Resistance (接觸阻抗)	40 mΩ Max. (最大.)	Subject mated contacts assembled in housing to closed circuit of 100 mA max. at open circuit voltage of 20 mV max. (所述固定在外殼裏的端子連結到一個封閉回路中測試：電流 100 mA，電壓 20 mV max.)
3. Insulation Resistance (絕緣阻抗)	500 MΩ Min. (最小)	Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector. EIA-364-22, Method 302, Condition B (500 V DC±10%). (測試產品端子間以及端子與接地間的電阻，適用：EIA-364-22,方法 302，條件 B(500V DC±10%)
4. Dielectric Strength (耐電壓)	Connector must withstand test potential of 300 V AC for 1 minute. Current leakage must be 1.0 mA max. (樣品必須承受測試電壓 300V AC，時間一分鐘，漏電流不大於 1.0 mA.)	Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector. (測試產品端子間以及端子與接地間的電壓)
5. Durability for Connector (耐久性)	Contact Resistance: 40 mΩ Max. after testing. (測試後接觸阻抗最大 40mΩ)	The sample should be mounted the tester and fully mated and unmated 250 cycles specified at the rate of 25mm/min (重復進行配合產品 250 次插拔.)
6. Compliant Pin Insertion Force (壓接力)	1100N Ref 2x1 型整體壓接力 1100N	At a speed of 200mm /minute, Apply axial press in PCB to right position (以 200mm/分鐘的速度,施加軸向壓力將端子壓入 PCB 板上)



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7. Connector Mated / Unmated Force (產品插拔力)	Mated force : 40N max. Unmated force : 11.5N min. 插入力: 40 N 最大 拔出力: 11.5 N 最小	Measure force necessary to unmated between the counterparts connectors.. (軸向力以 25±3mm/分的速度從塑膠本體對插後拔出)
8. Thermal shock (熱衝擊)	After testing, no damage, Contact Resistance 40 mΩ max.. (測試後,產品無損壞, 接觸阻抗: 40 mΩ 最大.)	Temperature range from -40°C to +85°C .Start from -40°C, after 30 min. change to +85°C; change time is no more than 30 seconds. Total 5 cycles. (溫度變化範圍: -40°C~ +85°C; 從 -40°C 開始, 30 分鐘後換到+85°C; 轉換時間不超過 30 秒; 共 5 個循環.)
9. Humidity (恆溫恆濕)	After testing, no damage, Contact Resistance 40 mΩ max.. (測試後,產品無損壞, 接觸阻抗: 40 mΩ 最大.)	Temperature :40±2° C 96 hours. (溫度: 40±2° C 96 小時) Relative Humidity : 90-95%;(相對濕度 : 90-95%;) Duration :96 Hours. (時間: 96 小時。)
10. Salt Spray (鹽霧)	After testing, no damage, Contact Resistance 40 mΩ max.. (測試後,產品無損壞, 接觸阻抗: 40 mΩ 最大.)	5±1% salt concentration 48 hours 35±2°C MIL-STD-202, Method 101 Condition B. (鹽水濃度(重量比) 5±1%, 時間 48 小時, 溫度 35±2°C.)



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Material Housing : 066-LCP(Black)

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測定項目	測定方法	単位	E4008	E4006L	E4205L	E6008	E6006L	E6109F	E6007AS	E6007LHF	E6807LHF	E6808LHF	E6808UHF	E6810LHF	E7006L	E7008	
充填材			ガラス繊維	ガラス繊維	ガラス繊維 /無機	ガラス繊維	ガラス繊維	無機	ガラス繊維 /無機	ガラス繊維	ガラス繊維 /無機	ガラス繊維 /無機	ガラス繊維 /無機	ガラス繊維 /無機	ガラス繊維	ガラス繊維	
標準成形温度		℃	380	380	380	350	350	350	350	350	350	350	350	350	320	320	
比重	ASTM D792		1.7	1.8	1.18	1.7	1.81	1.8	1.83	1.65	1.67	1.7	1.72	1.82	1.64	1.71	
吸水率	ASTM D570	%	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
成形収縮率	MD	佳化法	%	0.1	0.11	0.86	0.18	0.19	0.25	0.31	0.2	0.11	0.17	0.22	0.13	0.14	0.17
	TD		%	1.32	0.78	1.87	1.16	0.74	1.21	1.08	0.8	0.63	0.4	1.02	0.38	0.79	1.05
引張強度	ASTM D638	MPa	150	182	82	147	164	126	121	157	134	130	100	105	133	127	
伸び率		%	5	5.8	5	5.2	5	5.5	6.8	5.1	4.5	4.5	5	4	4.5	4.2	
曲げ強度	23℃	ASTM D790	MPa	139	155	85	143	153	112	128	158	145	140	120	133	140	138
	200℃		MPa	39	47	-	33	34	-	-	-	20	-	-	-	21	24
曲げ弾性率	23℃	ASTM D790	MPa	12300	11800	5800	12300	11300	11500	9800	11800	12100	12500	9400	12800	11200	11300
	200℃		MPa	6300	5780	-	4800	5100	-	-	-	4500	-	-	-	3140	3230
アイゾット衝撃度	8.4t/フタ付	ASTM D256	J/m	108	137	-	108	137	-	-	-	118	96	-	-	78	56
	8.4t/フタ無		J/m	520	481	309	412	383	382	343	251	343	270	350	200	255	275
セル断強度	ASTM D732	MPa	52	58	-	51	55	-	-	-	53	54	-	-	48	49	
ゴマロン比	ASTM D785		0.49	0.48	-	0.48	0.45	-	-	-	0.41	0.4	-	-	0.45	0.42	
ロクソウニル強度	ASTM D785	Rステール	R91	R91	-	R103	R103	R91	-	106	R101	R97	96	102	R107	R107	
荷重たわみ温度	ASTM D648	℃	313	310	305	279	284	270	274	269	270	270	240	266	242	242	
ハンダ耐熱性	佳化法	℃	330	335	-	300	300	300	300	300	295	280	280	280	275	275	
線膨張係数 (150℃)	MD	佳化法	x10 ⁻⁵ /℃	1.4	0.2	-	1.3	2	1.4	-	0.2	1	0.4	1	-	0.8	0.8
	TD		x10 ⁻⁵ /℃	8.2	8.1	-	5.8	8.9	7.8	-	8.5	8.3	8.1	6.2	-	8.4	7.8
炭素酸素指数	JIS K7201	-	48	44	-	48	42	-	-	40	45	44	48	48	49	49	
難燃性	難燃レベル	UL94	mmt	V-0	V-0	V-0	V-0	V-0	V-0	-	V-0	V-0	V-0	V-0	V-0	V-0	
	カラー			NC,BK	NC,BK	BK	ALL	NC,BK	BK	-	ALL	ALL	NC,BK	NC,BK	NC,BK	NC,BK	NC,BK
	厚み			0.3	0.3	0.3	0.3	0.3mmt	0.81mm t	-	0.3	0.3	0.3	0.3	0.3	0.3	0.38
熱伝導率		JIS R2618	W/mk	0.57	0.53	0.41	0.52	0.53	-	-	-	0.56	-	-	-	0.55	0.56
				kcal/mhrc	0.49	0.46	0.35	0.45	0.46	-	-	-	0.48	-	-	-	0.47
誘電率	(10 ³ Hz)	ASTM D150		4.5	4.4	-	4.4	4.3	-	-	-	4.7	-	-	-	4.6	4.7
	(10 ⁶ Hz)			3.9	3.7	2.9	3.9	3.7	-	-	3.8	4.1	3.8	3.8	4.1	3.9	4.1
	(10 ⁹ Hz)			-	-	-	-	-	-	-	3.5	-	3.6	3.4	3.8	-	-
誘電正接	(10 ³ Hz)	ASTM D150		0.018	0.018	-	0.022	0.023	-	-	-	0.024	-	-	-	0.026	0.024
	(10 ⁶ Hz)			0.034	0.035	0.013	0.022	0.034	-	-	0.026	0.03	0.036	0.033	0.02	0.032	0.03
	(10 ⁹ Hz)			-	-	-	-	-	-	-	0.004	-	0.004	0.004	0.004	-	-
体積固有抵抗	ASTM D257	Ωm	1013	1013	1013	1013	1013	1013	10 ¹¹	1013	1013	1013	1013	1013	1013	1013	
耐アーーク性	ASTM D495	sec	130	130	-	130	130	-	-	124	180	140	132	181	125	125	
耐トリアキング性	IEC法	V	145	185	-	125	115	-	-	175	150	190	200	200	155	155	

Housing :UL

UL Certification

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Component - Plastics [guide info]

E54705

SUMITOMO CHEMICAL CO LTD

Tokyo Sumitomo Twin Bldg, 27-1, Shinkawa 2-Chome, Chuo-Ku, Tokyo 104-8260 JP

E6007LHF(ra)

Liquid Crystal Polymer (LCP), "SUMIKASUPER", furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
NC, GY, BK	0.200	V-0	-	-	130	130	130
ALL	0.30	V-0	4	1	130	130	130
	3.0	V-0	0	1	130	130	130

Comparative Tracking Index (CTI): 3

Inclined Plane Tracking (IPT): -

Dielectric Strength (kV/mm): -

Volume Resistivity (10⁸ ohm-cm): -

High-Voltage Arc Tracking Rate (HVTR): -

High Volt, Low Current Arc Resis (D495): -

Dimensional Stability (%): -

(ra) - Virgin and Re grind up to 50% by weight have the same flammability, HWI, HAI and CTI properties only. No other properties for re grind between 25-50% have been evaluated.

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 2011-08-30

Last Revised: 2015-12-21

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IEC and ISO Test Methods

Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.200	V-0 (NC, GY, BK)
			0.30	V-0 (ALL)
			3.0	V-0 (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m ²	-	-
ISO Izod Impact	ISO 180	kJ/m ²	-	-
ISO Charpy Impact	ISO 179-2	kJ/m ²	-	-

Material Terminal : Copper Alloy (Phosphor Bronze)

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REPORT OF MATERIAL TEST
材料測試報告

ISO 9001
ISO/TS 16949
IECQ QC080000
ISO 14001
OHSAS 18001 & TOSHMS

No.: 251197

DATE: MAY.21,2013

Customer 顧客名稱 : 名佳利金屬工業股份有限公司
Commodity 商品名稱 : C5210R PHOSPHOR BRONZE FOR SPRING (EH)
Applied Standard 引用標準 : CNS 9503 Phosphor Bronze Sheets, Plates and Strips

Manufacture No.	銅捲製號	24M007A	
(Specification)	產品規格	Standard	
Thickness (mm)	產品厚度		0.300
Width (mm)	產品寬度		622.000
Length (mm)	產品長度		
(Chemical Analysis Test)	化性測試		
P(%)	磷	0.030 - 0.350	0.128
Sn(%)	錫	7.000 - 9.000	7.938
Cu+Sn+P(%)	銅錫磷	min. 99.700	99.942
(Mechanical & Physical Test)	物性測試		
Thickness Test (mm)	厚度測試	-	0.292
Width Test (mm)	寬度測試	-0.10 +0.00	GOOD
Tensile Strength (kgf/mm ²)	抗拉強度	min. 65.00	72.26
Elongation (%)	伸長率	min. 10.00	23.54
Hardness Test (Hv)	硬度	200.0 - 230.0	224.0 - 226.0
Grain Size (mm)	結晶粒度	-	0.010
Electric Conductivity (%)	導電率	-	12.10
(Other Information)	其他資訊		
Delivery No.	出貨單號		



MINCHALI METAL INDUSTRY CO., LTD.
名佳利金屬工業股份有限公司
11, Pei Yuan Road, Chung Li City, Taiwan, R.O.C.
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QA Supervisor: 周建偉

A980301 S1800901ME

Material(Top/Bottom/Back) Shell: Copper Alloy (Copper-Nickel-Zinc Alloy)

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SHENZHEN MINGSCHIN INDUSTRIAL MATERIAL CO., LTD.
深圳市明鑫工业材料有限公司

产品检测单

产品名称	白铜	产品规格	0.25mm
产品牌号	C7701	产品状态	II
厚度公差	±0.01	宽度公差	0,-0.1

化学成份 (%)

执行标准: JIS H 3130:2006

化学元素	CAS.NO	实测含量	标准含量	化学元素	CAS.NO	实测含量	标准含量	化学元素	CAS.NO	实测含量	标准含量
铜 Cu	7440-50-8	55.68	54.0-58.0	锌 Zn	7440-66-6	余量	余量	铁 Fe	7439-89-6	0.04	≤0.25
锡 Sn	7440-31-5	-----	-----	磷 P	7723-14-0	-----	-----	铅 Pb	7439-92-1	0.007	≤0.03
铋 Sb	7440-36-0	-----	-----	硅 Si	7440-21-3	-----	-----	铋 Bi	7440-09-9	-----	-----
镍 Ni	7440-02-0	17.11	16.5-19.5	锰 Mn	7439-96-5	0.27	0-0.5	铝 Al	7429-90-5	-----	-----
银 Ag	7440-22-4	-----	-----	砷 As	13026-64-7	-----	-----	镉 Cd	7440-43-9	-----	-----
硫 S	7704-34-9	-----	-----	钴 Co	7440-48-4	-----	-----	铍 Be	7440-41-7	-----	-----
镁 Mg	7439-05-4	-----	-----	铬 Cr	7440-47-3	-----	-----	杂质总和	-----	-----	-----

物理性能:

测试项目	实测值	标准值	测试项目	实测值	标准值
抗拉强度 N/mm ²	673	630-735	延伸率 (%)	190	≥4
杯突值	—	—	维氏硬度 HV	190	180-240

生产批号: 20140603

检验员: 秦小勇

确认: 王锡超



Material EMI Gasket : Copper Alloy (Copper-Nickel-Zinc Alloy)

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SHENZHEN MINGSCHIN INDUSTRIAL MATERIAL CO., LTD.
 深圳市明鑫工业材料有限公司

产品检测单

产品名称	白铜	产品规格	0.25mm
产品牌号	C7701	产品状态	II
厚度公差	±0.01	宽度公差	0,-0.1

化学成份 (%)

执行标准: JIS H 3130:2006

化学元素	CAS.NO	实测含量	标准含量	化学元素	CAS.NO	实测含量	标准含量	化学元素	CAS.NO	实测含量	标准含量
铜 Cu	7440-50-8	55.68	54.0-58.0	锌 Zn	7440-66-6	余量	余量	铁 Fe	7439-89-6	0.04	≤0.25
锡 Sn	7440-31-5	-----	-----	磷 P	7723-14-0	-----	-----	铅 Pb	7439-92-1	0.007	≤0.03
铋 Sb	7440-36-0	-----	-----	硅 Si	7440-21-3	-----	-----	铋 Bi	7440-09-9	-----	-----
镍 Ni	7440-02-0	17.11	16.5-19.5	锰 Mn	7439-96-5	0.27	0-0.5	铝 Al	7429-90-5	-----	-----
银 Ag	7440-22-4	-----	-----	砷 As	13026-64-7	-----	-----	镉 Cd	7440-43-9	-----	-----
硫 S	7704-34-2	-----	-----	钴 Co	7440-48-4	-----	-----	铍 Be	7440-41-7	-----	-----
镁 Mg	7439-05-4	-----	-----	铬 Cr	7440-47-3	-----	-----	杂质总和	-----	-----	-----

物理性能:

测试项目	实测值	标准值	测试项目	实测值	标准值
抗拉强度 N/mm ²	673	630-735	延伸率 (%)	190	≥4
杯突值	—	—	维氏硬度 HV	190	180-240

生产批号: 20140603

检验员: 姜小勇

确认: 王锡超



Material Light Pipe : 010-1-PC

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型号: PC

特性: 表面光泽好, 透明度高

性能	Property	测试标准 Standard ASTM	测试条件 Condition	单位 Unit	数值 Value
机械性能 Mechanical Property					
拉伸强度	Tensile Strength	D638	5mm/min	kgf/cm ²	620
断裂伸长率	Elongation at Break	D638	5mm/min	%	90
弯曲强度	Flexural Strength	D790	2.8mm/min	kgf/cm ²	900
弯曲模量	Flexural Modulus	D790	2.8mm/min	kgf/cm ²	22,500
缺口冲击强度	Izod Notched Impact Str.	D256	1/8",23°C	kgf.cm/cm	65
洛氏硬度	Rockwell Hardness	D785	R-Scale	R-Scale	118
物理性能 Physical Property					
熔融指数	Melt Flow index	D1238	300°C/1.2kgf	g/10min	14
成型收缩率	Mold Shrinkage	D955		%	0.5-0.7
比重	Specific Gravity	D792	23°C	g/cm ³	1.21
吸水率	Water absorption	D570	23°C	%	0.1-0.2
热性能 Thermal Property					
热变形温度 heat deflection temperature		D648	0.46MPa	°C	136
		D648	1.82MPa	°C	131
加工工艺 Processing					
干燥温度	Drying Temperature			°C	120
干燥时间	Drying Time			hrs	3-4
料筒温度	Cylinder Temperature			°C	270-310
模具温度	Mold Temperature			°C	70-90

* 以上数值是根据实验标准测定的代表数值。因为本资料是根据本公司实验数据所作成，所以这些数据未必适用各种不同的条件，最终还请客户自行作出判断。上述所列的仅是产品的基本信息而不是产品规格。