



PRODUCT SPECIFICATION OF OUPIIN

PRODUCT SPECIFICATION

(產品規格書)

產品名稱 Description	產品料號 Part No.	圖號 Drawing No.
I.D.C Socket	1001-xxC00x2A	1001D02005
2.54mm*2.54mm	1001-xxC00x1A	1001D02001

PRODUCT NAME (產品名稱)	DOCUMENT No.: (文件編號)	Rev. (版本)	OUPIIN
I.D.C Socket	1001spec	C (I718)	(歐品)
2.54mm*2.54mm	Approved (核準)	Checked (審核)	Prepared (製作)
(RoHS)	Q.A. Section Chief	Ruru Chen	2021.09.09



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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 I.D.C Socket 2.54mm*2.54mm , 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 I.D.C Socket 2.54mm*2.54mm 型,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)
EIA 364	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.)



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3.6. RATING CURRENT AND RATING VOLTAGE (額定電流與額定電壓)

Rating current is 1A, rating voltage is 250V AC RMS.

額定電流 1A，額定電壓 250V AC RMS。

3.7. OPERATING TEMPERATURE (使用溫度)

Temperature range: -40°C~+105°C.

溫度範圍：-40°C~+105°C。

4. PERFORMANCE AND TEST DESCRIPTION (性能及測試)

4.1. 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述的機械，電氣及環境要求.)

4.2. 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.)

4.3. 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.)



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Table I: Test Requirements and Procedures

(附表一: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. 產品必須符合相關產品圖面的要求	Visually, dimensions and functionally inspected per applicable product drawing. 依相關產品圖面，檢查產品的外觀、尺寸及功能
2. Contact Resistance (接觸阻抗)	30 m Ω Max. 最大.初態	Measure the electrical resistance across a pair of mated connector contacts 測量一組配對連接器端子之間的電阻
3. Insulation Resistance (絕緣阻抗)	3000 M Ω Min. 最小	Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector. (500 V DC \pm 10%). 測試產品端子間以及端子與接地間的電阻 (500V DC \pm 10%)
4. Dielectric Strength (耐電壓)	After testing, no physical damage 測試後，產品外觀無損壞	Connector must withstand test potential of 500 V AC for 1 minute. 樣品必須承受測試電壓 500V AC，時間一分鐘
5. Mechanical Life (使用壽命)	Contact Resistance: 50 m Ω Max. after testing. 測試後，接觸阻抗最大 50m Ω	The sample should be mounted the tester and fully mated and unmated 300 cycles specified at the rate of 25 \pm 3 mm/min 重復進行配合產品 300 次插拔，以 25 \pm 3 mm/分鐘的速度
6. Mating /Un-mating Force (插入力/拔出力)	Mating force : 0.3 kg max. per contact Un-mating force : 0.03 kg min. per contact 插入力: 0.3 kg 最大 拔出力: 0.03 kg 最小	At a speed of 25 \pm 3 mm/min, apply axial insert the mating part into fully or pull out from the subject product. 以 25 \pm 3 mm/分鐘的速度，軸向完全插入對配外掛程式到被測產品中或從被測產品中拔出



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7. Thermal shock (熱衝擊)	After testing, no damage, Contact Resistance 50 m Ω max. 測試後，產品無損壞， 接觸阻抗：50 m Ω 最大	Temperature range from -40°C to +105°C .Start from -40°C, after 30 min. change to +105°C. Total 5 cycles. 溫度變化範圍：-40°C~ +105°C；從-40°C 開始， 30 分鐘後換到+105°C；共 5 個循環
8. Heat Resistance (耐熱性)	After testing, no damage, Contact Resistance 50 m Ω max. 測試後，產品無損壞， 接觸阻抗：50 m Ω 最大	Subject product to 105 \pm 3°C for 96 hours continuously. 產品置於 105 \pm 3°C，連續 96 小時
9. Cold Resistance (耐冷性)	After testing, no damage, Contact Resistance 50 m Ω max. 測試後，產品無損壞， 接觸阻抗：50 m Ω 最大	Subject product to -40 \pm 3°C for 96 hours continuously. 產品置於-40 \pm 3°C，連續 96 小時
10. Salt Spray (鹽霧)	After testing, no damage, Contact Resistance 50 m Ω max. 測試後，產品無損壞， 接觸阻抗：50 m Ω 最大	5 \pm 1% salt concentration, 6 \pm 1 hours, 35 \pm 2°C 鹽水濃度（重量比）5 \pm 1%，時間 6 \pm 1 小時， 溫度 35 \pm 2°C



PRODUCT SPECIFICATION OF OUPIIN

Material Housing(灰色) : I718-PBT E202G30NA

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[如需 SGS 測試報告請點選此處](#)

SHINKONG SYNTHETIC FIBERS CO.
新光合成纖維股份有限公司

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Fax: 886-2-2506-8047 886-3-491-5763

CERTIFICATE OF ANALYSIS

GRADE (規格) : E202G30 (NATURAL)

PRODUCT CODE (批號) : DE3806

ITEM 檢驗項目	UNIT 單位	TEST METHOD 檢驗方法	VALUE 檢驗值
ASH (灰份)	%	ASTM D2584	29.9
TENSILE STRENGTH (拉伸強度)	kg/cm ²	ASTM D638	1260
FLEXURAL STRENGTH (彎曲強度)	kg/cm ²	ASTM D790	1960
FLEXURAL MODULUS(彎曲模數)	kg/cm ²	ASTM D790	93500
IZOD IMPACT STRENGTH (衝擊強度)	kg-cm/cm	ASTM D256	9.5
SPECIFIC GRAVITY (比重)	-	ASTM D792	1.61

Batch No: M8592

GREEN PRODUCT (無毒材料)



PRODUCT SPECIFICATION OF OUPIIN

Material Housing(黑色) : I718-PBT E202G30BK

[SGS Test Report Click here](#)

[如需 SGS 測試報告請點選此處](#)

SHINITE®

PBT

ENGINEERING PLASTIC DIVISION

SHINKONG SYNTHETIC FIBERS CORPORATION

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Technical Data

SHINITE®

E202G30BK

FR/GF Grade / 防火 / 玻纖強化級 : DE3886

		Unit	Test Method	Values	
Mechanical properties		機械性質			
Izod Impact(Notched)	衝擊強度	Kg-cm/cm	ASTM D256	8.4	
Tensile Strength	拉伸強度	Kg/cm ²	ASTM D638	1200	
Elongation	拉伸率	%	ASTM D638	2.8	
Flexural Strength	彎曲強度	Kg/cm ²	ASTM D790	1810	
Flexural Modulus	彎曲模數	Kg/cm ²	ASTM D790	88000	
Rockwell Hardness	洛式硬度	R	ASTM D785	120	
Thermal properties		熱性質			
Heat Deflection Temperatu	熱變形溫度		ASTM D648		
		66psi	°C	-	
		264psi	°C	205	
Flammability	防火性	-	UL94	V0	
Melting Point	熔點	°C	DSC	223	
Electrical properties		電氣性質			
Dielectric Strength	介電強度	KV/MM	ASTM D149	20	
Dielectric Constant	介電常數	...	ASTM D150	4	
Volume Resistivity	體積電阻	Ω-CM	ASTM D257	1.00E+16	
Other properties		其它性質			
Specific Gravity	比重	-	ASTM D792	1.60	
Water Absorption	吸水率	%	ASTM D570	0.07	
Mold Shrinkage	成形收縮率		ASTM D955		
		Flow	流動方向	%	0.2~0.4
		Cross Flow	垂直方向	%	0.5~0.9

UL file number : E107536

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Material Housing :UL

Component - Plastics

E107536

Guide Information

SHINKONG SYNTHETIC FIBERS CORP

223 YEN PING RD SEC 3, PIN CHENG TAoyUAN HSIEN 324 TW

E202G30

Polybutylene Terephthalate (PBT), glass reinforced, furnished as pellets

<u>Color</u>	<u>Min. Thk (mm)</u>	<u>Flame Class</u>	<u>HWI</u>	<u>HAI</u>	<u>RTI Elec</u>	<u>RTI Imp</u>	<u>RTI Str</u>
BK	0.38	V-0	-	-	75	75	75
ALL	0.75	V-0	3	0	130	110	120
	1.5	V-0, 5VB	2	0	130	110	120
BK	1.5	V-0, 5VA	2	0	130	110	120
ALL	3.0	V-0, 5VA	2	0	130	120	130

Comparative Tracking Index (CTI): 2

Dielectric Strength (kV/mm): 33

High-Voltage Arc Tracking Rate (HVTR): 4

Dimensional Stability (%): -

Inclined Plane Tracking (IPT) kV: -

Volume Resistivity (10² ohm-cm): 16

High Volt, Low Current Arc Resis (D495): 6

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: 2000-06-24

Last Revised: 2012-11-07

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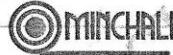


PRODUCT SPECIFICATION OF OUPIIN

Material Contact : I718-C5191

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REPORT OF MATERIAL TEST 材料測試報告

ISO 9001
IATF 16949
IECQ QC080000
ISO 14001
OHSAS 18001 & TOSHMS

No.: 910094

DATE: JAN.03,2020

Customer 顧客名稱 : 召翊有限公司
Commodity 商品名稱 : C 5191 R PHOSPHOR BRONZE STRIP (H)
Applied Standard 引用標準 : JIS H 3110 Phosphor bronze sheets, plates and strips

Manufacture No. 鑄造號 8CC045B

(Specification)	產品規格	Standard
Thickness (mm)	產品厚度	0.300
Width (mm)	產品寬度	305.000
Length (mm)	產品長度	

(Chemical Analysis Test)	化生測試		
P(%)	磷	0.030 - 0.350	0.090
Sn(%)	錫	5.500 - 7.000	5.913
Cu+Sn+P(%)	銅錫磷	min. 99.500	99.965

(Mechanical & Physical Test)	物生測試		
Thickness Test (mm)	厚度測試	-0.010 +0.003	0.299
Width Test (mm)	寬度測試	-0.10 +0.00	6000
Tensile Strength (kgf/mm2)	抗拉強度	60.00 - 70.00	60.23
Elongation (%)	伸長率	min. 8.00	21.94
Hardness Test (Hv)	硬度	185.0 - 195.0	190.0 - 192.0
Grain Size (mm)	結晶粒度	-	-
Electric Conductivity (%)	導電率	min. 13.00	15.10

(Other Information) 其他資訊
Delivery No. 出貨單號 910052

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