

PRODUCT SPECIFICATION

(產品規格書)

Ordering information

4771-	16		H		B
Series	No. of 02~16	Position	H: Housing		B: Bulk Package
4771-	PIN-	T-		6K	
Series	PIN	T: Tin Plated		6K Pins Per Reel	

A2:SEP.08/2011

A3:JAN.06/2016(改耐壓.接觸)

PRODUCT NAME (產品名稱)	DOCUMENT No.: (文件編號)	Rev. (版本)	OUPIIN
Housing 3.96mm	4771spec	A3(I704)	(歐品)
Terminal	Approved (核準)	Checked (審核)	Prepared (製作)
(RoHS)	Q.A. Section Chief	Sunny Tsai	JAN.06/2016

1. SCOPE (範圍)	3
2. REFERENCE DOCUMENTS (參考文件)	3
3. FEATURE & DIMENSIONS (特徵及尺寸)	3
3.1. <i>PRODUCT DIMENSION (產品尺寸)</i>	3
3.2. <i>PCB/PANEL LAYOUT (印刷電路板佈局)</i>	3
3.3. <i>BILL OF MATERIAL (材料清單)</i>	3
3.4. <i>MECHANICAL & ELECTRICAL CHARACTERISTIC (機械及電器特性)</i>	3
3.5. <i>PACKAGING (包裝)</i>	3
3.6. <i>RATING CURRENT AND RATING VOLTAGE (額定電流與額定電壓)</i>	4
3.7. <i>STORAGE AND OPERATING TEMPERATURE (儲存使用溫度)</i>	4
4. Environmental (環境要求)	4
4.1. <i>SOLDERABILITY (可焊性)</i>	4
4.2. <i>RESISTANCE TO SOLDER HEAT (耐焊接熱)</i>	4
WAVE SOLDERING (波峰焊)	4
1.Preheat (預熱)	4
2.Soldering (焊接)	4
3.Cool Down (冷卻)	4
5. PERFORMANCE AND TEST DESCRIPTION (性能及測試)	5
5.1. <i>REQUIREMENT (要求)</i>	5
5.2. <i>TEST CONDITION (測試條件)</i>	5
5.3. <i>SAMPLE SELECTION (樣品選擇)</i>	5
Table I: Test Requirements and Procedure	6
(附錄一: 測試要求)	
Table II: Material	7-9
(附錄二: 材料證明)	

1. SCOPE (範圍)

This product specification defines the product performance and the test methods to ascertain the performance of the Housing 3.96mm & Terminal , 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 Housing 3.96mm & Terminal 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 7.0A, rating voltage is 250V DC/AC RMS.

額定電流 7.0A，額定電壓 250V DC/AC RMS。

3.7 STORAGE AND OPERATING TEMPERATURE 儲存與使用溫度

Temperature range: -25°C~+85°C, including terminal temperature rise for rating current.

溫度範圍：-25°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)

Three cycles. Each cycle consisting of three consecutive phased.

(三個週期，每個週期包括三個連續的階段完成；)

1. Preheat (預熱)

Increase in temperature not to exceed 4°C per second.

(溫度增加不超過 4°C /秒。)

2. Soldering (焊接)

Maximum allowable time wave soldering temperature of 150 °C is 90~120 seconds.

Temperature in this interval is 230°C, not to exceed 3~5 seconds.

(波峰焊溫度150°C時最長不超過90~120秒。最高溫度230°C時間不超過3~5秒。)

3. Cool Down (冷卻)

Cool down shall not exceed 6°C per second.

(冷卻速度不超過6°C/秒。)

Note: (說明)

Device temperature measurements are referenced from the top-center of the package outer surface.

(設備溫度量測時以從頂部中間位置測量為準。)

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述的機械，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)	10 mΩ Max. initial (最大.初態)	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)	1000 MΩ Min. (最小)	Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector. MIL-STD-202, 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：MIL-STD-202,方法 302，條件 B)(500V DC±10%)
4. Dielectric Strength (耐電壓)	Connector must withstand test potential of 1500 V AC for 1 minute. Current leakage must be 0.5 mA max. (樣品必須承受測試電壓 1500V AC，時間一分鐘，漏電流不大於 0.5 mA.)	Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector. MIL-STD-202, Method 301. (測試產品端子間以及端子與接地間的電壓，適用：MIL-STD-202，方法 301。)

Material Housing : 016-PA66 UL 94V-2

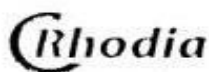
[SGS Test Report Click here](#)

[如需 SGS 測試報告請點選此處](#)

TECHNYL® A205F 尼龍 66 一般級高流動性快速成型

性 質	測試標準	單 位	數 值	
	ASTM		相對濕度 E11 0/ 50	
物理	吸水率: 23°C水 24h	D-570	%	1.2 / -
	比重	D-792	g/cm ³	1.14 / -
	成型收縮率: 平行 //	NYLTECH	%	1.9 / -
		NYLTECH	%	1.9 / -
機械	張力模數	D-638	kg/cm ²	32600 / 16300
	應力(降伏時)	D-638	kg/cm ²	860 / 560
	伸長率(降伏時)	D-638	%	7 / -
	伸長率(斷裂時)	D-638	%	30 / 300
	應力(50%伸長率)	D-638	kg/cm ²	--
	張應力(斷裂時)	D-638	kg/cm ²	600 / -
	衝擊強度 Charpy 無缺口	NFT51-035	kg _f .m/m	--
Charpy 有缺口	NFT51-035	kg _f .m/m	--	
Izod 有缺口	NFT51-035	kg _f .m/m	5 / 12	
熱力	熔點(DSC)	D-2117	°C	260
	熱變型溫度, 荷重 18.6 kg/cm ²	D-648	°C	82 / -
	線性膨脹係數 23-85°C	E 831	E-5/°C	7
	防火度(1.6mm)	UL 94	V	V2
	電弧(1.6mm)	CEI 695-2-1	°C	850 / 960
電氣	相對電容率 1MHz	D-150		2.9 / 3.2
	損耗因數 1MHz	D-150		0.03 / 0.08
	體積固有電阻	D-257	E14ohm.cm	10 / 0.1
	表面阻抗	D-257	E14.ohm	10 / 0.1
	絕緣破壞強度	D-149	KV/mm	27 / 26
	Comparative tracking index KC	CEI-112	Volt	600 / -
特性	防火度(0.8mm)	UL94	V	V2 / -
	須氧指數	ISO-4589	%	28.5 / -
操作條件: 進料區 270 ~ 275°C 乾燥: 80~90°C / 3~4 小時 壓縮區 280 ~ 285°C 120°C / 1 小時 計量區 285 ~ 290°C 模溫度 60 ~ 80°C				

以上數值僅供參考



Nyltech Engineering Plastics

龍台塑膠股份有限公司(法台化學)
 台北市 100 忠孝西路一段 66 號 25 樓



PRODUCT SPECIFICATION OF OUPIIN

Material Housing :UL

UL iQ for Plastics Yellow Card

第 1 頁 , 共 1 頁



QMFZ2 Component - Plastics

Tuesday, December 13, 2005

E44716

RHODIA ENGINEERING PLASTICS

QUARTIER BELLE-ETOILE AVE RAMBOZ BOITE POSTALE 64 ST FONS CEDEX 69192 FR

Material Designation: **A 205F(r4)**

Product Description: Polyamide 66 (PA66), designated "Technyl" furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
ALL	0.38	V-2	4	0	105	-	-	-	-
	0.75	V-2	4	0	110	75	85	-	-
	1.5	V-2	3	0	115	75	85	-	-
	3.0	V-2	2	0	120	75	85	-	-
BK	3.0	V-2	2	0	120	85	95	-	-

CTI: 0 IEC CTI (V): - HVTR: 0 D495: 5 IEC Ball Pressure (°C): -

Dielectric Strength (kV/mm): -

Volume Resistivity (10⁹ohm-cm): -

Dimensional Stability(%): -

ISO Tensile Strength (MPa): -

ISO Flexural Strength (MPa): -

ISO Heat Deflection (°C): -

ISO Tensile Impact (kJ/m²): -

ISO Izod Impact (kJ/m²): -

ISO Charpy Impact (kJ/m²): -

(r4) Virgin and regrind up to 50% by weight inclusive have the same basic material.

NOTE Materials designated "Technyl" may be prefixed by the letters "TY".

Report Date: 9/17/1992

Underwriters Laboratories Inc®

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.

[http://iq.ul.com/iq/ULiQ_MyLink/card.asp?\[card\]=235549&\[AskFile\]=E44716&\[AskCompa...](http://iq.ul.com/iq/ULiQ_MyLink/card.asp?[card]=235549&[AskFile]=E44716&[AskCompa...) 2006/4/17



PRODUCT SPECIFICATION OF OUPIIN

Material Contact : Copper Alloy (Brass-Plated Tin)

[SGS Test Report Click Here](#)

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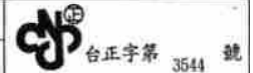


REPORT OF MATERIAL TEST

DATE: MAR 07 1997

Supplier: 弘振企業股份有限公司

Commodity: C 2680 R BRASS STRIP (H)



Applied Standard: CNS 4383 Brass Sheets, Plates and Strips

Chemical Analysis Test

Work No.	Size of Product			Cu(%)	Fe(%)	Pb(%)	Zn(%)			
	Thickness (mm)	Width (mm)	Length (mm)							
	Standard									
				64.00 - 66.00	max. 0.050	max. 0.070	REM.			
62A095B	0.250	0.000		65.140	0.025	0.009	REM.			
62A095C	0.250	0.000		65.140	0.025	0.009	REM.			

Mechanical & Physical Test

Work No.	Size of Product			Dimension Test		Tension Test		Hardness Test HV	Grain Size (mm)	Electric Conductivity (%)
	Thickness (mm)	Width (mm)	Length (mm)	Thickness (mm)	Width (mm)	Tensile Strength (kgf/mm ²)	Elongation (%)			
	Standard			-	(-) 0.10 - (+) 0.00	42 - 55	-			
62A095B	0.250	0.000		GOOD.	GOOD.	47.34	21.86	149.0 - 152.0	-	25.0
62A095C	0.250	0.000		GOOD.	GOOD.	47.34	21.86	149.0 - 152.0	-	25.0

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