



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.
5.08mm 4P Power Supplier Header	4874-04TSB	4874D01003

PRODUCT NAME (產品名稱)	DOCUMENT No.: (文件編號)	Rev. (版本)	OUPIIN
5.08mm 4P Power Supplier Header	4874 spec-W	B(I704)	(歐品)
	Approved (核準)	Checked (審核)	Prepared (製作)
	Q.A. Section Chief	Joseph Yen	05.09/2018



PRODUCT SPECIFICATION OF OUPIIN

1. SCOPE (範圍)

This product specification defines the product performance and the test methods to ascertain the performance of the 5.08mm 4P Power Supplier Header, 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 5.08mm 4P Power Supplier Header 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)
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。) Bulk Package 包裝



PRODUCT SPECIFICATION OF OUPIIN

3.6 STORAGE (儲存)

Temperature: -25°C ~ +85°C

(溫度: -25°C ~ +85°C)

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)

Each cycle consists of three consecutive phases.

(每個焊接週期包括三個連續的階段)

1. Preheat (預熱)

The steady temperature of the preheat zone is 90~125°C.

(預熱區最終溫度控制在90~125°C)

2. Soldering (焊接)

To avoid the secondary tin-melting, the temperature on PCB upper surface is 160°C Max. for products with lead, or 200°C Max. for lead-free products. The temperature of the PCB bottom surface shall not be exceed 100°C more than the temperature of the PCB upper surface. The peak temperature is during 220~245°C for products with lead, or 230~255°C for lead-free products. The tin dip time is duration for 3~10 seconds.

(有鉛產品板面溫度不得超過160°C，無鉛產品板面溫度不得超過200°C，以防止貼片零件二次熔錫。板面溫度與板底的溫度溫差不得超過100°C。板下溫度峰值有鉛產品維持在220~245°C，無鉛產品控制在230~255°C。浸錫時間控制在3~10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。)



PRODUCT SPECIFICATION OF OUPIIN

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；)



PRODUCT SPECIFICATION OF OUPIIN

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)	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 (50 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)(50V 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。)
5. Solder ability (可焊性)	Appearance of the specimen shall be inspected after the test with the assistance of a magnifier capable of giving a magnification of 10 X for any damage such as pinholes, void or rough surface. (樣品在測試完成後，在放大倍數為 10 倍的顯微鏡下，檢查外觀損壞如：小孔，空焊，外觀粗糙度；)	Soldering time: 3 to 5 Seconds (焊接時間：3~5 秒) Peak Temperature: 245±5°C. (最高溫度：245±5°C.)



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 (10^xohm-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.



PRODUCT SPECIFICATION OF OUPIIN

Material Contact : Copper Alloy (Brass)

[SGS Test Report Click here](#)

[如需 SGS 測試報告請點選此處](#)

材 質 測 試 報 告 (Test Report)

客戶名稱 (Title of customer)	台聘股份有限公司			出貨日期 (Date of delivery)	2010/12/30
訂單號碼 (Number of order)			製造批號 (Manufacture No)		
材質名稱 (Spec.)	訂單規格 (Ordered Dimension)		容許公差 (Tolerance)	實際規格 (Measured Dimension)	
JIS H3260 C2700 W / OH	尺寸(mm) (Diameter)	1.5	+0 -0.02	1.483	
	長度(mm) (Length)	—	+ -	—	

化 學 分 析 (Chemical Analysis)

使用儀器 (Instrument)	光 譜 分 析 儀 (Spark Metal Analyser)							
元素名稱 (Element)	銅 (Cu)	鉛 (Pb)	鋅 (Zn)	鐵 (Fe)	錫 (Sn)	鐵+錫 (Fe)+(Sn)	鉍 (Bi)	鎘 (Cd)
標準規範 % (Specification)	63.0~67.0	≤0.05	Balance	≤0.05	—	—	—	—
實際含量 % (Actual value)	63.5~64.5	≤0.02	Balance	≤0.03	—	—	—	—

外 觀 及 物 理 性 質 (Exteriority Check And Physical Properties)

外 觀 (Exteriority)	外觀檢驗 (Exter Appear)	OK	直度檢驗 (Camber)	OK
使用儀器 (Instrument)	材料試驗機 (Material test machine)		測試方法 (Method of test)	JIS Z 2201 NO.2
物理性質 (Physical character)	時期破裂試驗 (S.C.C. Test)	抗拉強度 (Tensile strength)	延伸率 (Elongation)	硬度 (Hardness)
標準規範 (Specification)	OK	≥ 295 (N/mm ²)	≥ 20 %	— HV
實測數值 (Actual value)	OK	341 ~ 383 (N/mm ²)	31 ~ 48 %	— HV
單位主管 (Supervisor)	鄭如雯		檢驗員 (Operator)	許淑美

此份測試報告僅供本材質參考
Reference Only , This report is uncertificated but referenced .

國 晟 工 業 股 份 有 限 公 司
GWO CHERN INDUSTRIAL CO., LTD.

