PRODUCT SPECIFICATION

(產品規格書)

Ordering information

4876-	20	H	B
Series	No. of Position	H：Housing	B：Bulk Package

PRODUCT NAME (產品名稱)	DOCUMENT No.: (文件編號)	Rev. (版本)	OUPIIN (歐品)
Housing 0.80 mm (RoHS)	4876spec-H	A1	
	Approved (核準)	Checked (審核)	Prepared (製作)
	Q.A. Section Chief	Amy Chiu	JAN.14/2010

1. SCOPE （範圍）

This product specification defines the product performance and the test methods to ascertain the performance of the Housing 0.80 mm , 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 0.80 mm 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-202F	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. Products required carrier tape should meet the proper specification per purchase order. Connector container and the packaging specification is shown in package drawing.
(產品包裝可依客戶指定要求.本產品採用 Bulk Package 包裝，具體見包裝圖面.)

3.6 STORAGE （儲存）

Temperature: -25℃~+85℃
(溫度: -25℃~+85℃)

4. ENVIRONMENTAL（環境要求）

4.1. SOLDERABILITY （可焊性）

Connectors meet solder ability to MIL-STD-202F. Finish shall be free of contaminants.
(產品可焊性符合 MIL-STD-202F 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℃ per second.
(溫度增加不超過 4℃ /秒,)

2. Soldering （焊接）

Maximum allowable time wave soldering temperature of 150℃ is 90~120 seconds. Temperature in this interval is 235℃, not to exceed 5 seconds.
(波峰焊溫度150℃時最長不超過90~120秒. 最高溫度235℃時間不超過5秒.)

3. Cool Down （冷卻）

Cool down shall not exceed 6℃ per second.
(冷卻速度不超過6℃/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爲準.)

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)	20 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 10 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 10 mV max.)
3. Insulation Resistance (絕緣阻抗)	100 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 (100 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)(100V DC±10%)

Material Housing：027-PA66

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TECHNYL PSA 244

Flame Retardant, 25% GF Reinforced PA66

PROPERTIES	STANDARD	UNIT	VALUE
PHYSICAL / THERMAL			
Specific Gravity	D-792	g/cm^3	1.58
Moisture Absorption (24hrs at 23 °C)	D-570	%	0.8
Melting Point	D-2117	°C	260
Coefficient of Linear Expansion	D-696	E-5/°K	3.0
Deflection Temperature Under Load			
. at 0.46 MPa	D-648	°C	-
. at 1.82 Mpa	D-648	°C	225
Moulding Shrinkage			
Ratio //	RHODIA	%	0.5
Ratio ⊥	RHODIA	%	1.0
MECHANICAL			
Tensile			
Modulus of Elasticity	D-638	MPa	11500
Breaking stress	D-638	MPa	140
Elongation at Break	D-638	%	1.6
Flexural			
Modulus of Elasticity	D-790	MPa	-
Breaking Stress	D-790	MPa	-
Charpy Impact			
Unnotched Specimens	D-256	kJ/m^2	40.0
Notched Specimens	D-256	kJ/m^2	5.0
ELECTRICAL			
Dielectric strength	D-149	kV/mm	-
Flammability under 1.6 mm	UL94	rate	V0
Comparative Tracking Index - Sol A	D-3638	V	325
PROCESSING			
For Injection Moulding of	->Mold Temperatur	80 - 100	°C
TECHNYL PSA 244, the	->Feed Zone	260 - 270	°C
following settings may be	->Compression Zon	270 - 280	°C
recommended:	->Front Zone	280 - 290	°C
	->Nozzle	270 - 290	°C

. The values above are for reference only.

Rhodia
Engineering Plastics

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30-Aug-02

Material Housing :UL

UL iQ for Plastics Yellow Card

QMFZ2 Component - Plastics

Friday, October 24, 2003

E44716

RHODIA ENGINEERING PLASTICS
QUARTIER BELLE-ETOILE AVE RAMBOZ BOITE POSTALE 64 69192 ST FONS CEDEX FRANCE

Material Designation: **PSA 244**

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
NC, BK	0.78-0.82	V-0	-	-	-	-	-	-	-

CTI: - **IEC CTI:** - **HVTR:** - **D495:** - **IEC Ball Pressure** (°C): -

Dielectric Strength (kV/mm): -
ISO Tensile Strength (MPa): -
ISO Tensile Impact (kJ/m^2): -

Volume Resistivity (10^{x}ohm-cm): -
ISO Flexural Strength (MPa): -
ISO Izod Impact (kJ/m^2): -

Dimensional Stability(%): -
ISO Heat Deflection (°C): -
ISO Charpy Impact (kJ/m^2): -

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

Report Date: 10/9/2000

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.

Material Terminal: Copper Alloy (Phosphor Bronze)

SGS Test Report Click here

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REPORT OF MATERIAL TEST

MINCHALI

DATE: FEB 24 2004

Customer: 歐品電子有限公司 | Commodity: C 5191 R PHOSPHOR BRONZE STRIP (H)

Applied Standard: CNS 9503 Phosphor Bronze Sheets,Plates and Strips

ISO 9002:4M8Y035-00 台正字第 3545 號

Chemical Analysis Test

Work No.	Size of Product Thickness (mm)	Width (mm)	Length (mm)	P(%)	Sn(%)	Cu+Sn+P(%)				
	Standard			0.030 - 0.350	5.50 - 7.00	min. 99.50				P.O. NUMBER
31CD66A	0.150	400.000		0.133	6.148	99.968				
31CD71A	0.150	400.000		0.147	6.195	99.980				

Mechanical & Physical Test

Work No.	Size of Product Thickness (mm)	Width (mm)	Length (mm)	Dimension Test Thickness (mm)	Width (mm)	Tension Test Tensile Strength (kgf/mm²)	Elongation (%)	Hardness Test HV	Grain Size (mm)	Electric Conductirity (%)
	Standard			-	(-) 0.10 - (+) 0.00	min. 58	-	min. 170	-	-
31CD66A	0.150	400.000		GOOD.	GOOD.	62.62	19.36	197.0 - 199.0	-	13.7
31CD71A	0.150	400.000		GOOD.	GOOD.	62.62	23.66	195.0 - 197.0	-	14.8

QC Supervisor 鄧建益

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