

PRODUCT SPECIFICATION

(產品規格書)

Ordering information

8206-	120	N	P	A	
Series	No. of Pin Count	N : Nylon	P : With Post	A: Tray Package	
8206-	120	NP	K	B	
Series	No. of Pin Count	N : Nylon	K : Straddle Mount	B: Bulk Package	
8206-	120	C	10	R	U
Series	No. of Pin Count	C: Selective Gold00:Gold Plated	10:10 μ ”	R:Right Angle	U: Tube Package

PRODUCT NAME (產品名稱)	DOCUMENT No.: (文件編號)	Rev. (版本)	OUPIIN (歐品)
Edge Connector	8206spec-120	A1	
1.27mm	Approved (核準)	Checked (審核)	Prepared (製作)
(RoHS)	Q.A. Section Chief	Amy Chiu	NOV.23/2010

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	7-11
(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 PCI 120PIN Connector 1.27 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 PCI 120 Pin Connector 1.27 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 Tray Package/ Bulk Package/ Tube Packag
包裝，具體見包裝圖面.)

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

Rating current is 1.0A, rating voltage is 250V DC/AC RMS.

額定電流 1.0A，額定電壓 250V DC/AC RMS。

3.7 STORAGE AND OPERATING TEMPERATURE 儲存與使用溫度

Temperature range: -55°C~+85°C, including terminal temperature rise for rating current.

溫度範圍：-55°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-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)

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 220~230°C for products with lead, or 230~245°C for lead-free products. The tin dip time is duration for 3~ 5 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220~230°C，無鉛產品控制在230~245°C。浸錫時間控制在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)	30 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)	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 500 V AC for 1 minute. Current leakage must be 0.5 mA max. (樣品必須承受測試電壓 500V 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. Durability (耐久性)	Contact Resistance: 30 mΩ Max. after testing. (測試後接觸阻抗最大 30mΩ)	The sample should be mounted the tester and fully mated and unmated 100 cycles specified at the rate of 25mm/min (重復進行配合產品 100 次插拔.)
6. 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.)

Material Housing : 007-PA66 (Black)

[SGS Test Report Click here](#)

[如需 SGS 測試報告請點選此處](#)



TL/0028/1997.290/UK

TECHNYL® B 50H1

Description	Flame retardant copolyamide 66/6, unreinforced, heat stabilised, for injection moulding.									
Applications	<p>This phosphorus and halogen free flame retardant grade, UL 94 V0 (0.4 mm), offers excellent filling qualities and with good stiffness.</p> <p>It is particularly suitable for moulding insulating parts for electrical components :</p> <ul style="list-style-type: none">- On board materials for use in tunnels, satisfying specification n°3 of the Standard " Fire and Smoke " NF-F16102.- Components for electrical connections : junction blocks, terminal blocks, connectors. <p>This product is available in natural, black, and in colours on request.</p>									
Processing	<p>The material is supplied in airtight bags, ready for use. In the case that the virgin material has absorbed moisture, it must be dried to a final moisture content of less than 0,2% with a dehumidified air drying equipment at approx 80°C.</p> <p>Recommended moulding conditions :</p> <table><tr><td>Barrel temperatures :</td><td>- feed zone</td><td>240 - 250°C</td></tr><tr><td></td><td>- compression zone</td><td>245 - 255°C</td></tr><tr><td></td><td>- front zone</td><td>250 - 260°C</td></tr></table> <p>Mould temperatures : 60 at 80°C</p> <p>For more detailed information , please refer to the technical sheet "Injection moulding".</p>	Barrel temperatures :	- feed zone	240 - 250°C		- compression zone	245 - 255°C		- front zone	250 - 260°C
Barrel temperatures :	- feed zone	240 - 250°C								
	- compression zone	245 - 255°C								
	- front zone	250 - 260°C								
Safety	Please refer to the Material Safety Data Sheet B4									



Engineering Plastics

TECHNYL® B 50H1

Main properties

Values measured at 23 °C

The values of properties are for natural grade.

Properties	Standards	Unit	Values	
			EH 0 – 23 °C	EH 50 – 23 °C
Physical				
Water absorption, 24h in water at 23°C	ISO 62	%	1.1	-
Density	ISO 1183-A	g/cm ³	1.16	-
Moulding shrinkage longitudinal	RHODIA-EP	%	1.1	-
Moulding shrinkage transverse	RHODIA-EP	%	1	-
Mechanical				
Tensile Modulus	ISO 527	MPa	3700	2200
Yield stress	ISO 527	MPa	80	40
Elongation at yield	ISO 527	%	5	13
Nominal elongation at break	ISO 527	%	5	100
Stress at 50% elongation	ISO 527	MPa	-	41
Tensile stress at break	ISO 527	MPa	80	45
Flexural modulus	ISO 178	MPa	3500	2000
Flexural strength	ISO 178	MPa	105	70
Charpy notched impact strength	ISO 179/1EA-1993	kJ/m ²	3	12
Charpy notched impact strength ISO179/1A	ISO 179-1982	kJ/m ²	4	-
Charpy impact strength	ISO 178/1EU-1993	kJ/m ²	60	NB
Charpy impact strength ISO 179/1D	ISO 179-1982	kJ/m ²	60	999
Izod notched impact strength	ISO 180	kJ/m ²	3	10
Thermal				
Melt temperature	ISO 3146 - C	°C	242	-
Temper. of dimensional stability 1,8 MPa	ISO 75-2	°C	85	-
Coef. linear expansion longit. 23°C-85°C	ASTM E 831	E-5 / °C	6.5	-
Flammability UL94 thickness 0,4mm	ISO 1210UL 94	-	V0	-
Flammability UL94 thickness 0,8mm	ISO 1210UL 94	-	V0	-
Flammability UL94 thickness 1,6 mm	ISO 1210UL 94	-	V0	-
Glow wire test thickness 1,6 mm	IEC 885-2-1	°C	960	-
Glow wire test thick. 1,6 mm : no flame	IEC 885-2-1	°C	650	650
Glow wire test thick. 0,8 mm : c < 5s	IEC885-2-1&R885-E-02	°C	960	960
Glow wire test thick. 1,6 mm : <5s	IEC885-2-1&R885-E-02	°C	960	960
Electrical				
Relative permittivity 1MHz	IEC 250	-	3.6	4
Dissipation factor 1 MHz	IEC 250	-	0.02	0.06
Volume resistivity	IEC 93	E14.Ohm.cm	10	10
Surface resistivity	IEC 93	E14.Ohm	10	0.01
Dielectric strength	IEC 243-1	W/mm	34	30
Comparative tracking index KC	IEC 112	Volt	600	600
Comparative tracking index KB	IEC 112	Volt	575	-
Specific				
Fire and Smoke, F index	NFF 16.101 ET 16.102	-	2	-
Fire and Smoke, I index	NFF 16.101 ET 16.102	-	2	-
Fire and Smoke, specif.n°	NFF 16.102	-	3	-
Limit oxygen index	ISO 4589	%	33	37

Identification code

>PA66/6<

The information contained in this document is supplied in good faith. It is based on the extent of our knowledge of the products as listed, and on the tests and experiments carried out in our laboratories. It is to be used only as an indication and shall not be construed in any way as a formal commitment or warranty on our part. Compliance of our products with your conditions of application or use can only be determined pursuant to your own prior appropriate test. The listed values of properties are for natural grade, if not otherwise specified.



Engineering Plastics

Avenue Ramboz BP 64 F-69192 Saint-Fons Cedex. Telephone: +33 (0)4 72 89 27 00 Fax: +33(0)4 72 89 27 01

RHODIA ENGINEERING PLASTICS. Société Anonyme au capital de 271 256 400 F - 393 335 104 RCS Lyon



PRODUCT SPECIFICATION OF OUPIIN

Material Housing :UL

JLiQ for Plastics Yellow Card

第1頁・共1



QMFZ2-Component - Plastics

Friday, November 11, 2005

E44716

RHODIA ENGINEERING PLASTICS

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

Material Designation: **B 50H1(r1)**

Product Description: Polyamide 66/6 (PA66/6), unfilled, 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-0	4	0	120	-	-	-	-
	0.75	V-0	4	0	120	90	95	-	-
BK	1.0	V-0, 5VB	4	0	120	90	95	-	-
	1.5	V-0	4	0	120	90	95	-	-
	3.0	V-0	3	0	120	90	95	-	-

CTI: 0 IEC CTI (V): - HVTR: 0 D495: 6 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): -

(r1) Virgin and regrind up to 50% by weight incl. have the same basic material characteristics, except for the 5VB rating.

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

Report Date: 10/21/1993

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](#)



REPORT OF MATERIAL TEST

DATE: NOV. 27, 2008

Customer: 亞松貿易有限公司	Commodity: C 2680 R BRASS STRIP (H)	 ISO 9002:4MSY035-00 台正字第 3544 號
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 - 68.00	max. 0.050	max. 0.014	REM.			
7BA014B	0.300	623.000		65.197	0.018	0.003	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	-			
								105 - 175	-	-
7BA014B	0.300	623.000		GOOD.	GOOD.	49.06	20.78	153.0 - 154.0	0.015	26.1

QC Supervisor

881281-46

ADD1005

MINCHALI METAL INDUSTRY CO., LTD.

11, Pei Yuan Road, Chung Li City, Taiwan, R. O. C.

Tel: (886) 35221115, (886) 35221116



PRODUCT SPECIFICATION OF OUPIIN

Material Contact -Right Angle : Copper Alloy (Phosphor Bronze)

[SGS Test Report Click here](#)

[如需 SGS 測試報告請點選此處](#)



REPORT OF MATERIAL TEST

DATE: FEB.23,2005

4

Customer: 歐品電子有限公司	Commodity: C 5191 R PHOSPHOR BRONZE STRIP (H)	ISO 9002-4M8Y035-00 台正字第 3545 號
Applied Standard: CNS 9503 Phosphor Bronze Sheets, Plates and Strips		

Chemical Analysis Test										
Work No.	Size of Product			P(%)	Sn(%)	Cu+Sn+P(%)				P.O. NUMBER
	Thickness (mm)	Width (mm)	Length (mm)							
	Standard									
3CC195A	0.300	305.000		0.145	6.000	99.974				

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	min. 58	-			
3CC195A	0.300	305.000		GOOD.	GOOD.	63.57	21.38	201.0 - 203.0	-	14.4

QC Supervisor 鄭建益

MINCHALI METAL INDUSTRY CO., LTD.
11, Pei Yuan Road, Chung Li City, Taiwan, R. O. C.
Tel : (03)4526141-5 (03)4526017-9