



PRODUCT SPECIFICATION

(產品規格書)

Ordering information

9001- 1 3 Y2 B
Series 1: 2.54mm 3: Male Y: Grey B: Bulk Package

PRODUCT NAME (產品名稱)	DOCUMENT No.: (文件編號)	Rev. (版本)	OUPIIN
DIN 41612	9001spec-13Y2	A1	(歐品)
3 Rows 96P Shroud	Approved (核準)	Checked (審核)	Prepared (製作)
(RoHS)	Q.A. Section Chief	Amy Chiu	APR.11/2011



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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 DIN 41612 3 Rows 96P Shroud, 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 DIN 41612 3 Rows 96P Shroud 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)
MIL-G-45204C	Specification for gold plating (鍍金規格)
IEC 603-2	International standard (規格標準)
UL 498	UL standard for safety of attachment plug and receptacle (UL 安規要求標準)

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 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 2.0A, rating voltage is 500V DC/AC RMS.

額定電流 2.0A，額定電壓 500V DC/AC RMS。

3.7 STORAGE AND OPERATING TEMPERATURE 儲存與使用溫度

Temperature range: -55°C~+125°C, including terminal temperature rise for rating current.

溫度範圍：-55°C~+125°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)

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 245°C, not to exceed 5 seconds.

(波峰焊溫度150°C時最長不超過90~120秒. 最高溫度245°C時間不超過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. Insulation Resistance (絕緣阻抗)	1000 M Ω 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 \pm 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 \pm 10%)
3.High temperature (高溫)	After testing, no damage, (測試後,產品無損壞)	Subject product to 85 \pm 2 $^{\circ}$ C for 96 hours continuously. MIL-STD-202, Method 108. (產品置於 85 \pm 2 $^{\circ}$ C 連續 96 小時,適用 MIL-STD-202,方法 108。)



PRODUCT SPECIFICATION OF OUPIIN

Material Housing : 004-PBT

[SGS Test Report Click here](#)

[如需 SGS 測試報告請點選此處](#)

長春人造樹脂廠股份有限公司 CHANG CHUN PLASTICS CO.,LTD.

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材 質 證 明
MATERIAL FORMULATION CONFIDENTIAL REPORT

廠商 Customer :
材質名稱 Type of Material : PBT (Poly Butylene terephthalate) 聚丁烯對苯二甲酸酯
規格 Grade : PBT 4130

說明 Description :

PBT-4130 複合材料包含 PBT 純樹脂、玻纖、溴化耐燃劑及少量添加劑。
PBT 4130 完全符合 RoHS 指令的規定。

The raw material of PBT-4130 compound contains PBT pure resin, glass fiber, flame retardant, and few of additives. Our PBT-4130 are completely up to the regulations specified in RoHS directive.

PBT 複合材料成分表
Chemical Composition of PBT Compound

規格 Grade		4130		
組成 Chemical Composition	Molecular formula	CAS Number	含量(%) Content (%)	
1	PBT 樹脂 PBT resin	(C ₁₂ H ₁₂ O ₄) _n	26062-94-2	40~56
2	玻璃纖維 Glass Fiber	SiO ₂ · CaO · Al ₂ O ₃	65997-17-3	30
3	耐燃劑 Flame Retardant	(C ₁₈ H ₁₆ Br ₄ O ₃) _n (C ₁₆ H ₁₀ Br ₄ O ₃) _n	68928-70-1 71342-77-3	12~17
4	耐燃劑 Flame Retardant	Sb ₂ O ₃	1309-64-4	2~5
5	添加劑 Additives	N.A.	NA	0~6

供應商 MATERIAL SUPPLIER

Company: CHANG CHUN PLASTICS CO., LTD KAOHSIUNG FACTORY

Signature: Ching-Neng Tseng / Section Manager / Technical Section

Address: No.14 KUNG-YEH 1ST ROAD, JEN-WU INDUSTRIES DISTRICT,
KAOHSIUNG, TAIWAN, ROC.

Date: Sep.09, 2006





PRODUCT SPECIFICATION OF OUPIIN

Material Housing :UL

UL iQ for Plastics Yellow Card

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QMFZ2 Component - Plastics

Monday, February 26, 2007

E59481

CHANG CHUN PLASTICS CO LTD
7TH FL 301 SONGKIANG RD TAIPEI TW

Material Designation: **4130 (a)**

Product Description: Polybutylene Terephthalate (PBT), glass reinforced, designated "LONGLITE" furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
ALL	0.40	V-0	4	0	75	75	75	-	-
	0.74	V-0	4	0	120	120	140	-	-
	1.5	V-0	3	0	120	120	140	-	-
	3.0	V-0	2	0	120	120	140	-	-

CTI: 2 IEC CTI (V): - HVTR: 4 D495: 7 IEC Ball Pressure (°C): 210

Dielectric Strength (kV/mm): 28	Volume Resistivity (10⁹ohm-cm): 14	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): -

(a) Ball pressure temperature of 210 C in accordance with IEC.695.10.2 and IEC 950.5.4.10

Report Date: 9/1/1987

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.