

PRODUCT SPECIFICATION

(產品規格書)

Ordering information

3011-	64	G	00	S	B	1	A
Series	Position	G : Gold	00:Gold Flash	S : Straight	B : Black	1 : With Long	A:Tray
	No. of Pin	Plated	10:10 μ”	R : Right Angle	Y : Grey	Ejectors	Package
	Count	C : Dip Tin	15:15 μ”	*W: Wire Warp		2 : With Short	
		Contact Gold	30:30 μ”			Ejectors	
						3 : Without Ejectors	

3012-	64	G	00	S	B	A	
Series	Position	G : Gold	00:Gold Flash	S : Straight	B : Black	A:Tray	
	No. of Pin	Count	Plated	10:10 μ”	R : Right Angle	Y : Grey	Package
		C : Dip Tin		15:15 μ”	*W: Wire Warp		
		Contact Gold		30:30 μ”			

A1:APR.25/2012.

A2:MAR.10/2015.(修改材證連結)

PRODUCT NAME (產品名稱)	DOCUMENT No.: (文件編號)	Rev. (版本)	OUPIIN
Box Header	3011spec+3012spec	A2(I800)	(歐品)
2.54mm	Approved (核準)	Checked (審核)	Prepared (製作)
(RoHS)	Q.A. Section Chief	Amy Chiu	MAR.10/2015



PRODUCT SPECIFICATION OF OUPIIN

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	6-7
(附錄一: 測試要求)	
Table II: Material	8-11
(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 Box Header 2.54mm , 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 Box Header 2.54mm 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。) Tray Packag 包裝

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

Rating current is 2.0A, rating voltage is 150V DC/AC RMS.

額定電流 2.0A，額定電壓 150V DC/AC RMS。

3.7 STORAGE AND OPERATING TEMPERATURE 儲存與使用溫度

Temperature range: -40°C~+105°C, including terminal temperature rise for rating current.

溫度範圍：-40°C~+105°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 220~245°C for products with lead, or 235~265°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235~265°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.)

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 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 1000 V AC for 1 minute. Current leakage must be 0.5 mA max. (樣品必須承受測試電壓 1000V 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. Retention Force (產品保持力)	9.8 N min. per individual contact 單 PIN 拔出力: 9.8 N 最小	Plug pull out sockek shall be an alignment at a constant aped of 25mm/minute. (軸向力以 25±3mm/分的速度從塑膠本體對插後拔出)



PRODUCT SPECIFICATION OF OUPIIN

<p>7. Thermal shock (熱衝擊)</p>	<p>After testing, no damage, Contact Resistance 30 mΩ max.. Dielectric Strength should be OK, Insulation Resistance should be 1000 MΩ min. (測試後,產品無損壞, 接觸阻抗: 30 mΩ 最大; 耐電壓測試 OK, 絕緣阻抗 1000MΩ 最小;)</p>	<p>Temperature range from -40°C to +85°C .Start from -40°C, after 30 min. change to +85°C; change time is no more than 30 seconds. Total 5 cycles. MIL-STD-202, Method 107D, condition A. (溫度變化範圍: -40°C ~ +85°C; 從 -40°C 開始, 30 分鐘後換到+85°C; 轉換時間不超過 30 秒; 共 5 個循環.適用: MIL-STD-202, 方法 107D, 條件 A.)</p>
<p>8. Humidity (恆溫恆濕)</p>	<p>After testing, no damage, Contact Resistance 30mΩ max.. (測試後,產品無損壞, 接觸阻抗: 30 mΩ 最大)</p>	<p>Temperature :85±2°C 96 hours. (溫度: 85±2°C 96 小時) Relative Humidity : 90-95%; (相對濕度 : 90-95%;) Duration :96 Hours. MIL-STD-202, Method 108, (時間: 96 小時; MIL-STD-202, 方法 108。)</p>
<p>9.High Temperature Life (高溫老化)</p>	<p>After testing, no damage, Contact Resistance 30mΩ max.. (測試後,產品無損壞, 接觸阻抗: 30 mΩ 最大)</p>	<p>Subject product to 105±3°C for 96 hours continuously. MIL-STD-202, Method 108. (產品置於 105±3°C 連續 96 小時, 適用 MIL-STD-202, 方法 108。)</p>
<p>10. Solderability (可焊性)</p>	<p>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;)</p>	<p>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.)</p>



PRODUCT SPECIFICATION OF OUPIIN

Material Housing : 023-PBT (Black)

[SGS Test Report Click here](#)

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長春人造樹脂廠股份有限公司

台北市 10477 松江路三零一號七樓

CHANG CHUN PLASTICS CO.,LTD.

TLX:2253 LONGLITE

NO.301 SONGKIANG ROAD, 7FL., TAIPEI, 10477 TAIWAN

FAX: (02)25033378

CABLE ADDRESS: LONGLITE TAIPEI

TEL: (02)25038131

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	$SiO_2 \cdot CaO \cdot Al_2O_3$	65997-17-3	30
3	耐燃劑 Flame Retardant	$(C_{18}H_{16}Br_4O_3)_n$ $(C_{16}H_{10}Br_4O_3)_n$	68928-70-1 71342-77-3	12~17
4	耐燃劑 Flame Retardant	Sb_2O_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 Certification

頁 1 / 1

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Component - Plastics [guide info]

E59481

CHANG CHUN PLASTICS CO LTD

7TH FL, 301 SONGKIANG RD, TAIPEI 104 TW

4130(100% Virgin) (a)(b)

Polybutylene Terephthalate (PBT), glass reinforced, "LONGLITE", furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	0.40	V-0	4	0	75	75	75
	0.74	V-0	4	0	140	140	140
	1.5	V-0	3	0	140	140	140
	3.0	V-0	2	0	140	140	140

Comparative Tracking Index (CTI): 2

Dielectric Strength (kV/mm): 27

High-Voltage Arc Tracking Rate (HVTR): 4

Dimensional Stability (%): -

Inclined Plane Tracking (IPT): -

Volume Resistivity (10¹² ohm-cm): 14

High Volt, Low Current Arc Resis (D495): 7

(a) - Ball pressure temperature of 210 C in accordance with IEC 60695-10-2 and IEC 60950 4.5.2

(b) - 100% Virgin material or contains up to 25% regrind material.

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

Report Date: 1987-09-01

Last Revised: 2013-03-29

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IEC and ISO Test Methods

Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.40	V-0 (ALL)
			0.74	V-0 (ALL)
			1.5	V-0 (ALL)
			3.0	V-0 (ALL)
Glow-Wire Flammability (GWF)	IEC 60695-2-12	C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	3.0	210
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m ²	-	-
ISO Izod Impact	ISO 180	kJ/m ²	-	-
ISO Charpy Impact	ISO 179-2	kJ/m ²	-	-

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2015-03-13

Material G-Contact :Copper Alloy (SQUAREPIN-Au)

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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)	2008/06/26
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 0H	尺寸(mm) (Diameter)	1.08	+0 -0.02	1.08	
	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)	63.6 ~ 64.6	≤0.03	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	295 ~ 325 (N/mm ²)	33 %	125~150 HV
單位主管 (Supervisor)	游秋遠		檢驗員 (Operator)	胡律素

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.



Material C-Contact : Copper Alloy (Brass)

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REPORT OF MATERIAL TEST
材料測試報告

ISO 9001
ISO/TS 16949
IECQ QC080000
ISO 14001
OHSAS 18001 & TOSHMS

No.: 372106

DATE: JUL.30,2014

Customer 顧客名稱 : 歐品電子有限公司
Commodity 商品名稱 : C 2680 R BRASS STRIP (H)
Applied Standard 引用標準 : JIS H 3100 Copper and Copper alloy sheets, plates and strips

Manufacture No.	銅帶製號	37A100B	
(Specification)	產品規格	Standard	
Thickness (mm)	產品厚度		0.640
Width (mm)	產品寬度		305.000
Length (mm)	產品長度		
(Chemical Analysis Test)	化性測試		
Cu(%)	銅	64.000-68.000	65.039
Fe(%)	鐵	max. 0.050	0.012
Pb(%)	鉛	max. 0.0500	0.0009
Zn(%)	鋅	REM.	REM.
(Mechanical & Physical Test)	物性測試		
Thickness Test (mm)	厚度測試	-0.015 +0.010	0.635
Width Test (mm)	寬度測試	-0.10 +0.00	GOOD
Tensile Strength (kgf/mm2)	抗拉強度	42.00 - 55.00	45.80
Elongation (%)	伸長率	-	29.46
Hardness Test (Hv)	硬度	140.0 - 160.0	145.0 - 146.0
Grain Size (mm)	結晶粒度	-	-
Electric Conductivity (%)	導電率	-	26.40
(Other Information)	其他資訊		
Delivery No.	出貨單號	37A110	
Customer Purchase Order	採購單號	PO.B2A14071038	



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