PRODUCT SPECIFICATION

(產品規格書)

Ordering information

1204-	80	G	00	B	2	A
Series	No. of Pin Count 06~80	G：Gold Plated	00:Gold Flash	B：Black	2：Without Strain Relief	A：Tray Package

A1:MAR.30/2011.
A2:APR.18/2013.(修改敘述 3.5 Packaging)
A3:SEP.17/2013.(增加 PIN 數-24,32,36&64.)
A4:MAR.04/2015.(增加 I722/I703)

PRODUCT NAME (產品名稱)	**DOCUMENT No.:** (文件編號)	**Rev.** (版本)	**OUPIIN** (歐品)
I.D.C Socket	1204spec	A4(I722/I703)	
1.27mm*1.27mm	**Approved** (核準)	**Checked** (審核)	**Prepared** (製作)
(RoHS)	Q.A. Section Chief	Amy Chiu	MAR.04/2015

1. SCOPE （範圍）

This product specification defines the product performance and the test methods to ascertain the performance of the I.D.C Socked 1.27mm*1.27mm , 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 I.D.C Socked 1.27mm*1.27mm. 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）

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。)

3.6 *STORAGE （储存）*

Temperature: -40℃~+105℃ (溫度: -40℃~+105℃)

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）NA（不適用）*

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)	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. (500 V DC±10%). (測試產品端子間以及端子與接地間的電阻) (500V DC±10%)
4. Dielectric Strength (耐電壓)	Connector must withstand test potential of 250 V AC for 1 minute. Current leakage must be 0.5 mA max. (樣品必須承受測試電壓 250V 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. Thermal shock (熱衝擊)	After testing, no damage, Contact Resistance 30 mΩ max.. Dielectric Strength should be OK, Insulation Resistance should be 500 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 500MΩ最小;)	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. (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.)
6.High Temperature Life (高溫老化)	After testing, no damage, Contact Resistance 30 mΩ max.. Dielectric Strength should be OK, Insulation Resistance should be 500 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 500MΩ最小;)	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。)

Material Housing：023-PBT Black

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
台北市松江路三０一號七樓
CHANG CHUN PLASTICS CO., LTD.
NO.301, SONGKIANG ROAD, 7TH FL.,
TAIPEI, 10477 TAIWAN
TEL:886-2-25001883
FAX:886-2-25018018

CCP PBT 4830BK PROPERTIES

MATERIAL : PBT4830BK
VENDOR: CHANG CHUN PLASTICS CO., LTD.

TEST ITEM	TEST METHOD	UNIT	QC RANGE
比重 (SPECIFIC GRAVITY)	ASTM D-792		≧1.57
灰份 (ASH)		%	28-32
抗張強度 (TENSILE STRENGTH)	ASTM D-638	KG/CM^2	≧1000
伸長率 (ELONGATION)	CCP METHOD	%	≧3.0
抗折強度 (FLEXURAL STRENGTH)	ASTM D-790	KG/CM^2	≧1500
抗折模數 (MODULUS)	ASTM D-790	KG/CM^2	≧70000
衝擊強度 (IMPACT STRENGTH, NOTCHED)	ASTM D256	KG-CM/CM	≧7.0
熔融指數 (MELT INDEX)	ASTM D-1238	g/10MIN	14-26

Material Housing :UL

Need more information? **Click Here** to go to the UL iQ™ for Plastics database

Component - Plastics **E59481**

CHANG CHUN PLASTICS CO LTD

7TH FL, 301 SONGKIANG RD, TAIPEI 104 TW

4830

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

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	3.0-3.2	V-0	0	1	75	75	75

Comparative Tracking Index (CTI): **3**

Inclined Plane Tracking (IPT): **-**

Dielectric Strength (kV/mm): **-**

Volume Resistivity (10^X ohm-cm): **-**

High-Voltage Arc Tracking Rate (HVTR): **2**

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

Dimensional Stability (%): -

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 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: 2006-08-02

IEC and ISO Test Methods

Test Name	Test Method	Units	Thickness Tested (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	3.0-3.2	V-0 (ALL)
Glow-Wire Flammability (GWFI)	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	-	-
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	-	-

Material Contact : Copper Alloy (Phosphor Bronze)

SGS Test Report Click here

如需 SGS 測試報告請點選此處

MINCHALI

REPORT OF MATERIAL TEST
材料測試報告

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

No.: 372166 DATE: JUL.30,2014

Customer 顧客名稱 : 歐品電子有限公司
Commodity 商品名稱 : C 5191 R PHOSPHOR BRONZE STRIP (H)
Applied Standard 引用標準 : JIS H 3110 Phosphor bronze sheets, plates and strips

Manufacture No.	銅捲號號		36C063C
(Specification)	產品規格	Standard	
Thickness (mm)	產品厚度		0.250
Width (mm)	產品寬度		15.000
Length (mm)	產品長度		
(Chemical Analysis Test)	化性測試		
P(%)	磷	0.030 - 0.350	0.118
Sn(%)	錫	5.500 - 7.000	5.807
Cu+Sn+P(%)	銅錫磷	min. 99.500	99.958
(Mechanical & Physical Test)	物性測試		
Thickness Test (mm)	厚度測試	-0.010 +0.010	0.249
Width Test (mm)	寬度測試	-0.10 +0.00	GOOD
Tensile Strength (kgf/mm2)	抗拉強度	58.00 - 65.00	61.09
Elongation (%)	伸長率	min. 10.00	25.08
Hardness Test (Hv)	硬度	180.0 - 210.0	192.0 - 194.0
Grain Size (mm)	結晶粒度	-	-
Electric Conductivity (%)	導電率	-	16.40
(Other Information)	其他資訊		
Delivery No.	出貨單號		37A110
Customer Purchase Order	採購單號		PO.B02A14061311

QA Supervisor: 周建偉 A980301 G3600302CH

MINCHALI METAL INDUSTRY CO., LTD.
名佳利金屬工業股份有限公司
11,Pei Yuan Road, Chung Li City, Taiwan, R.O.C.
Tel : (03)4526141-5 (03)4526017-9
Fax : (03)4529112 (03)4629625

Cable: 0.635mm Piteh Flat Cable

• CONDUCTOR : Stranded

AWG size : 30 AWG
Number of strands in each conductor : 7/0.102mm.
Lay of strands in each conductor : 0.5 inch at least
Cross section area : 98 mil.

• CONDUCTOR : Single

AWG size : 30 AWG
Conductor : 0.254 mm
Cross section area : 98 mil.

• INSULATION :

Material of insulation : polyvinyl chloride(PVC) deep gray and gray
Insulation thickness average : 7 mil.
Minimum insulation thickness : 6 mil.

• PHYSICAL PROPERTIES : After 7 days air oven at 136°C

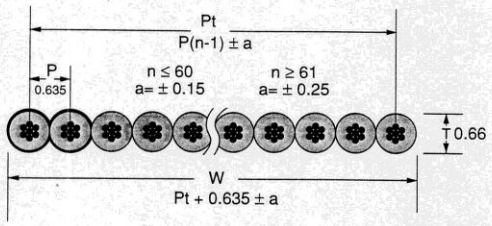
Average tensile strength : 1500 lbs/inch²
Percent of original : 70% at least
Average elongation : 200%
Percent of original : 65% at least

• ELECTRONIC CHARACTERISTICS :

Spark test : 1500V
Dielectric strength test : Minimum 1500 V in 1 minute
Conductor resistance : Maximum 377Ω/km
Insulation resistance : Minimum 1GΩ -m
Capacity : 75pF/m(G-S-G) 49pF/m(G-S)
Characteristic Impedance : 72Ω (G-S-G) 113Ω (G-S)
Propagation delay time : 5.4ns/m

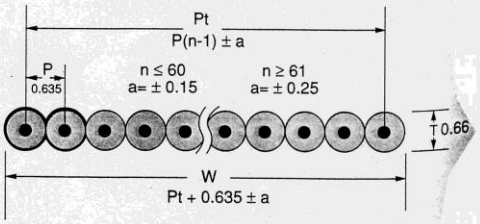
Conductor resistance : Maximum 361 Ω/km
Capacity : 71pF/m(G-S-G) 47pF/m(G-S)
Characteristic Impedance : 80Ω (G-S-G) 115Ω (G-S)
Propagation delay time : 5.2ns/m

• CONSTRUCTION DRAWING:



Specification:(N=Number of conductors)

• CONSTRUCTION DRAWING:



Specification:(N=Number of conductors)