

PRODUCT SPECIFICATION

(產品規格書)

Ordering information

| | | | | |
|--------|-------------------------|----------------------|--------------------------|-----------------|
| 7906- | 37 | M | A | A |
| Series | Position 9,15,25,37 | M: Male F: Female | A~Z:See Page | A: Tray Package |
| 7916- | 62 | M | A | A |
| Series | Position 15,26,44,62 | M: Male F: Female | A~Z:See Page A165~168 | A: Tray Package |

| PRODUCT NAME (產品名稱) | DOCUMENT No.: (文件編號) | Rev. (版本) | OUPIIN |
|------------------------|-------------------------|------------------------|-------------------------|
| D-SUB | 7906spec+7916spec | B1 | (歐品) |
| Right Angle Type | Approved (核準) | Checked (審核) | Prepared (製作) |
| (RoHS) | Q.A. Section Chief | Amy Chiu | MAY.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 D-SUB Right Angle Type, 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 D-SUB Right Angle Type 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 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 150V DC/AC RMS.

額定電流 1.0A，額定電壓 150V DC/AC RMS。

3.7 STORAGE AND OPERATING TEMPERATURE 儲存與使用溫度

Temperature range: -55°C~+105°C, including terminal temperature rise for rating current.

溫度範圍：-55°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 230~255°C for products with lead, or 255~265°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230~255°C，無鉛產品控制在255~265°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；)



PRODUCT SPECIFICATION OF OUPIIN

6. MOUNTING OPTION (配件選擇)

| Footprint | TYPE | 7906-Series |
|-----------|-----------|---|
| 8.07mm | Option A | With grounding forks (Locking type) and with jack screws attached |
| | Option B | With grounding forks (Locking type) and with riveted threaded inserts |
| | Option B1 | With riveted threaded inserts |
| | Option G | With grounding forks (Locking type) and with .125 diameter non – threaded riveted inserts |
| | Option H1 | With riveted threaded inserts |
| | Option K | Grounding strap with .125 diameter non-threaded mounting holes. And with riveted threaded inserts |
| | Option L1 | With .125 diameter non-threaded mounting holes. and with riveted threaded inserts and with jack screws attached |
| | Option L | Same as option L1, but jackscrew are bagged separately |
| | Option Q | With .130 diameter non-threaded mounting holes. And with jack screws attached |
| | Option R | Grounding strap with .125 diameter non-threaded mounting holes. And with .125 diameter non-threaded riveted inserts |
| | Option Y | With grounding forks (Locking type) with riveted threaded inserts and with jack screws attached |
| | Option H | Same as option Y, but jackscrew are bagged separately |
| | Option Z | With 4-40 threaded mounting holes. And with jack screws attached and with .130 diameter threaded riveted inserts |
| Footprint | TYPE | 7916-Series |
| 8.89mm | Option A | With grounding forks (Locking type) and with jack screws attached |
| | Option B | With grounding forks (Locking type) and with riveted threaded inserts |
| | Option B1 | With riveted threaded inserts |
| | Option G | With grounding forks (Locking type) and with .125 diameter non – threaded riveted inserts |
| | Option H1 | With riveted threaded inserts |
| | Option K | Grounding strap with .125 diameter non-threaded mounting holes. And with riveted threaded inserts |
| | Option L1 | With .125 diameter non-threaded mounting holes. and with riveted threaded inserts and with jack screws attached |
| | Option L | Same as option L1, but jackscrew are bagged separately |
| | Option Q | With .130 diameter non-threaded mounting holes. And with jack screws attached |
| | Option R | Grounding strap with .125 diameter non-threaded mounting holes. And with .125 diameter non-threaded riveted inserts |
| | Option Y | With grounding forks (Locking type) with riveted threaded inserts and with jack screws attached |
| | Option H | Same as option Y, but jackscrew are bagged separately |
| | Option Z | With 4-40 threaded mounting holes. And with jack screws attached and with .130 diameter threaded riveted inserts |

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 (Repeated Mating/Unmated) (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 200 cycles specified at the rate of 25mm/min (重復進行配合產品 200 次插拔.) |
| 6. Thermal shock (熱衝擊) | 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;) | 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.) |



PRODUCT SPECIFICATION OF OUPIIN

| | | |
|------------------------------------|---|---|
| <p>7. Humidity (恆溫恆濕)</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 :40±2° C 96 hours. (溫度 : 40±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>8. Solder ability (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)

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長春人造樹脂廠股份有限公司

台北市松江路三〇一號七樓

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 |



PRODUCT SPECIFICATION OF OUPIIN

Material Housing :UL

QMFZ2 Component - Plastics Wednesday, May 25, 2005 E59481

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

Material Designation: **PBT-4830**

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 | 3.0-3.2 | V-0 | 0 | 1 | 75 | 75 | 75 | - | - |

CTI: 3 IEC CTI (V): - HVTR: 2 D495: 7 IEC Ball Pressure (°C): -

Dielectric Strength (kV/mm): - Volume Resistivity (10¹²ohm-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): -

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 ULL.



PRODUCT SPECIFICATION OF OUPIIN

Material Contact : Copper Alloy (Brass)

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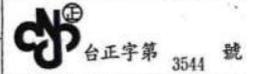
REPORT OF MATERIAL TEST

DATE: MAR 07 1999

Supplier: 弘振企業股份有限公司

Commodity: C 2680 R BRASS STRIP (H)

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. 0.070 | REM. | | | |
| 62A095B | 0.200 | 0.000 | | 65.140 | 0.025 | 0.009 | REM. | | | |
| 62A095C | 0.200 | 0.000 | | 65.140 | 0.025 | 0.009 | 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 | - | | | |
| | | | | GOOD. | GOOD. | 47.34 | 21.86 | 149.0 - 152.0 | - | 25.0 |
| 62A095B | 0.200 | 0.000 | | GOOD. | GOOD. | 47.34 | 21.86 | 149.0 - 152.0 | - | 25.0 |
| 62A095C | 0.200 | 0.000 | | GOOD. | GOOD. | 47.34 | 21.86 | 149.0 - 152.0 | - | 25.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |

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

QC Supervisor



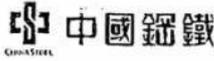


PRODUCT SPECIFICATION OF OUPIIN

Material Shell : Steel (Shell-Tin)

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品質證明書
TEST CERTIFICATE

中國鋼鐵股份有限公司
CHINA STEEL CORPORATION
中華民國臺南市港都中街88號
1 CHUNG KANG ROAD, TAINAN KANG, KAOHSIUNG
TAIWAN, REPUBLIC OF CHINA
TEL: 02260-1111 FAX: 02260-1511/02260-9122

| 客戶名稱 YUNG FA STEEL & IRON INDUSTRY CO., LTD. | | 產品名稱 CR SHEET-COIL | | 70160-61 0346 | | | | | | | | | | | | | | | |
|---|---------|--|-----------------------|---------------|------------|----------|----------|------------|---------|----|----|---|---|----|-----|--|----|----|--------|
| 規格名稱 JIS G3141 SPCC-SU, OILED, (G2, UE) | | 標準號碼 ZY7444H360 | 證明書編號 09300630160 | | | | | | | | | | | | | | | | |
| SNC R-35 | | 客戶編號 35A89006 | 中鋼字庫編號 LC5003C | | | | | | | | | | | | | | | | |
| 檢 驗 CSC MILL INSPECTION | | 交還日期 JUN 01, 2004 | 證明書日期 JUN 01, 2004 | | | | | | | | | | | | | | | | |
| T/C 01 | | 客戶訂單編號 021022210 | | | | | | | | | | | | | | | | | |
| 項 目 | 產品序號 | 尺寸 | 規格 | 爐號 | 鋼捲號碼 | 試片號碼 | 拉伸試驗 | #05 | 化學成份 | | | | | | 備 註 | | | | |
| NO. | NO. | 厚度 THICK. | 寬度 WIDTH | 長度 LENGTH | 重量 WGT | HEAT NO. | COIL NO. | SAMPLE ID. | Y | C | Mn | P | S | Si | Ni | Cr | Mo | Al | REMARK |
| | | MM | MM | MM | MTN | KGS | | | % | % | % | % | % | % | % | % | % | % | |
| SPECIFICATION | | | | | | | | | | | | | | | | | | | |
| 002 | F405280 | √ 0.40 | 1215 | COIL | 10.734A095 | 100830 | 100836 | 176 | 31642.6 | 41 | | | | | | | | | |
| | F405640 | " | " | " | 10.740R530 | A48058 | A48058 | 166 | 31642.6 | 38 | | | | | | | | | |
| | F405817 | " | " | " | 10.658R530 | A48056 | A48056 | 179 | 31642.6 | 39 | | | | | | | | | |
| | F743356 | " | " | " | 10.688R530 | A48059 | A48059 | 172 | 31641.6 | 39 | | | | | | | | | |
| | F743357 | " | " | " | 10.688R530 | A48059 | A48059 | 172 | 31641.6 | 39 | | | | | | | | | |
| 004 | F748818 | 0.50 | 1215 | COIL | 10.300R238 | 120768 | 120768 | 161 | 30345.6 | 43 | | | | | | | | | |
| | F748819 | " | " | " | 10.535R238 | 120768 | 120768 | 161 | 30345.6 | 43 | | | | | | | | | |
| 004 | F743381 | 0.20 | 1215 | COIL | 10.658R200 | A48209 | A48209 | 102 | 30648.0 | 38 | | | | | | | | | |
| | F745415 | " | " | " | 10.710H374 | 114994 | 114994 | 173 | 31744.0 | 41 | | | | | | | | | |
| | | TOTAL: | | | | 95.680 | | | | | | | | | | | | | |
| 註 釋 | | #01 拉伸試驗 TENSILE TEST | | | | | | | | | | | | | | KG/MM2 = N/MM2 / 9.80665 | | | |
| 備 註 | | #05 硬度試驗 HARDNESS TEST | | | | | | | | | | | | | | INF: FOR REFERENCE ONLY | | | |
| SURVEYOR TO | | 茲證明本表所列產品，均經材料規格製造及試驗，並符合規格之要求。 WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION. | | | | | | | | | | | | | | Y.C. Huang 品質管理處處長 QUALITY MANAGER | | | |

Material SCREW : Copper Alloy (Brass-C604)

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試驗報告表

CE/2007/41609

| | | | | | | |
|-------------------------|-------------------------------------|---------|------------|-----------|--------------|-------------|
| 廠商名稱 | | | | | 日期 | 2007年04月18日 |
| 試材名稱 | 銅合金 (Copper Alloys) | 合金編號 | C3604-3A | 炉次編號 | 20070402AB05 | |
| 化學試驗 (Chemical Testing) | | | | | | |
| 試驗方法 | X-線光譜分析法 | | | | | |
| 使用儀器名稱 | X光電腦分析儀 (VACUUM X RAY SPECTROGRAPH) | | | | | |
| 元素名稱 | 標準含量(%) | 試片含量(%) | 元素名稱 | 標準含量(%) | 試片含量(%) | |
| 銅 (Cu) | 57.0-61.0 | 58.8 | 錫 (Sn) | Fe+Sn<1.2 | 0.3 | |
| 鋅 (Zn) | REM | REM | 鐵 (Fe) | <0.5 | 0.3 | |
| 鉛 (Pb) | <3.5 | 2.5 | 錳 (Mn) | ———— | ———— | |
| 鎘 (Cd) | <0.0050 | <0.0050 | 銻 (Sb) | ———— | ———— | |
| 汞 (Hg) | <0.0075 | <0.0075 | 鋁 (Al) | ———— | ———— | |
| 六價鉻 (Cr ⁶) | <0.0075 | <0.0075 | 其他(Others) | ———— | ———— | |
| 備註 | DIA. 13.0 mm (C3604BD) | | | | | |
| 分析員 | 蔡聰銘 | | 主管 | 張國桐 | | |