

PRODUCT SPECIFICATION

(產品規格書)

Ordering information

8949-ID3 8 8 4 -06 S 0 A B A

Series Pos. 8:8 Contacts 2:2*1= 2Port 06:06 μ” S:Shield *1:with A:LED1:Green,LED B:Black
 6:6 Contacts 4:2*2= 4Port 15:15 μ” Blank: Grounding 2: Yellow
 4:4 Contacts 8:2*4= 8Port 30:30 μ” Non-shield *0:w/o B:LED1:Green,LED
 2:2 Contacts 12:2*6=12Port 50:50 μ” Grounding 2:Green A:Tray
 C:LED1:Yellow,LED Package
 2: Green
 D:LED1:Yellow,LED
 2:Yellow

A1:AUG.05/2011.
 A2:APR.18/2014.(增 Pag-10)

PRODUCT NAME (產品名稱)	DOCUMENT No.: (文件編號)	Rev. (版本)	OUPIIN
Modular Jack With LED ID3 Type (RoHS)	8949spec-ID3	A2(I563)	(歐品)
	Approved (核準)	Checked (審核)	Prepared (製作)
	Q.A. Section Chief	Amy Chiu	APR.18/2014

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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 Modular Jack ID3 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 Modular Jack ID3 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, 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 1.5A, rating voltage is 150V DC/AC RMS.

額定電流 1.5A，額定電壓 150V DC/AC RMS。

3.7 OPERATING TEMPERATURE 使用溫度

Temperature range: -40°C~+85°C.

溫度範圍：-40°C~+85°C。

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 230~255°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220~245°C，無鉛產品控制在230~255°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 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)	500 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. Durability (Repeated Mating/Unmated) (耐久性)	Contact Resistance: 50 mΩ Max. after testing. (測試後接觸阻抗最大 50mΩ)	The sample should be mounted the tester and fully mated and unmated 750 cycles specified at the rate of 25mm/min (重復進行配合產品 750 次插拔.)
5. Thermal shock (熱衝擊)	After testing, no damage, Contact Resistance 50 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：50 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.)
6. Humidity (恆溫恆濕)	After testing, no damage, Contact Resistance 50 mΩ max.. Dielectric Strength should be OK, Insulation	Temperature :40±2°C 96 hours. (溫度：40±2°C 96 小時) Relative Humidity : 90-95%;



PRODUCT SPECIFICATION OF OUPIIN

	Resistance should be 1000 M Ω min. (測試後,產品無損壞,接觸阻抗: 50 m Ω 最大;耐電壓測試 OK,絕緣阻抗 1000M Ω 最小;)	(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 。)
7.High temperature (高溫)	After testing, no damage, Contact Resistance 50 m Ω max.. Dielectric Strength should be OK, Insulation Resistance should be 1000 M Ω min. (測試後,產品無損壞,接觸阻抗: 50 m Ω 最大;耐電壓測試 OK,絕緣阻抗 1000M Ω 最小;)	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 。)
8. 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 \pm 5 $^{\circ}$ C. (最高溫度: 245 \pm 5 $^{\circ}$ C.)

Material Housing(下) : 029-PA46 (Black)

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Datasheet TE250F9 - 00001

45% GF reinforced, flame retardant, grade for E/E applications

Typical properties	Unit	ISO/IEC	DIN	Grade TE250F9
General properties				
Density	g/cm ³	ISO 1183	53479	1,82
Melting temperature	°C	ISO 3146		295
Temperature properties				
HDT-A (1.8 MPa)	°C	ISO 75-1	53461	290
Peak temperature (1 min.)	°C	UL 746B		-
Continuous use temperature	°C	IEC 60216		163
- 5000 hrs				
Coeff. linear thermal expansion	E-4/K	DIN 53752		
- // (23-55°C)				0,2
- ⊥ (23-55°C)				0,8
Electrical properties				
RTI electrical	°C, mm	UL 746B		*
Insulation class	-	UL 1446		*
Flammability (at thickness)	class(mm)	UL 94		V-0 (0.8)
Comparative tracking index (CTI)	PLC	IEC 60112		2
Electric strength	kV/mm	IEC 60243-1		
- dry (23°C)				30
- con (23°C/50%RH)				20
Volume resistivity	Ohm.cm	IEC 60093		
- dry (23°C)				1E+15
- con (23°C/50%RH)				1E+10
Mechanical properties				
Izod impact strength (notched)	kJ/m ²	ISO 180-1A		
- dry (23°C)				13
- con (23°C/50%RH)				15
Tensile strength	MPa	ISO 527-1	53455	
- dry (23°C)				200
- con (23°C/50%RH)				130
Tensile Modulus	MPa	ISO 527-1	53457	
- dry (23°C)				17000
- con (23°C/50%RH)				12000
Strain at break	%	ISO 527-1	53455	
- dry (23°C)				2
- con (23°C/50%RH)				3
Dimensional properties				
Moulding shrinkage	%	DSM		
- //				0,3
- ⊥				0,9
Humidity absorption (equi. 23°C/50%RH)	%	ISO 62		1,2

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DSM Kunststoffen BV, Trade Register Heeren 31043



PRODUCT SPECIFICATION OF OUPIIN

Material Housing :UL

QMFZ2 Component - Plastics

Monday, April 10, 2006

E47960

DSM ENGINEERING PLASTICS B V

POSTBUS 604 GELEEN 6160 AP NL

Material Designation: **TE250F9(h)(j)**

Product Description: Polyamide 4/6 (PA4/6), glass reinforced, flame retardant, designated "Stanyl" furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
ALL	0.75	V-0	0	0	140	110	120	-	-
	1.5	V-0	0	0	140	125	125	-	-
	3.0	V-0	0	0	140	130	130	-	-

CTI: 2 **IEC CTI (V): -** **HVTR: 1** **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): -**

- (h) Virgin and regrind up to 50% by weight inclusive, have the same basic material characteristics.
- (j) Virgin and regrind, up to 100% by weight inclusive, have the same basic material characteristics with respect to Flammability in the 0.75mm thickness and greater.

Report Date: 1/1/2003

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 Housing(上) : 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 ULI.

Material Contact : Copper Alloy (Phosphor Bronze)

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GUO CHING PRECISION CO., LTD

試驗成績表

REPORT OF MATERIAL TEST

客戶 : 歐品電子有限公司	國慶精密股份有限公司
Customer	桃園縣龜山鄉大崗村大湖路2-17號
品名 : C5191-H	尺寸 : 0.300x 28.0x C
Product	Size
料號 : 1020301020	日期 : 102/03/26
Lot No	Date
	TEL : 03-2115391~8
	FAX : 03-2115399

化學成份

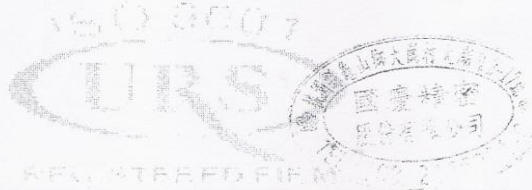
CHEMICAL COMPOSITION

元素 ELEMENT	Cu	P	Sn
規範 MAX	-	0.350	7.000
SPEC MIN	93.400	0.030	5.500
分析值 ANALYSIS VALUE	94.203	0.125	5.626

試驗

TEST RESULT

項目 ITEM	抗張 Tensile Strength kgf/mm2	伸長 Elongation %	硬度 Hardness Test o	結晶粒度 Grain Size µm	導電率 Electric Conductivity
規範 CONDITION	-	-	HV	-	-
SPEC MAX	70.000	-	200.000	-	-
SPEC MIN	58.000	8.000	180.000	-	-
測驗值 MEASURE-MENT VALUE	59.710	22.040	194.000	0.010	14.500



Approved by:



Checked by:





PRODUCT SPECIFICATION OF OUPIIN

Material Shell : Copper Alloy (Brass:Plating Ni)

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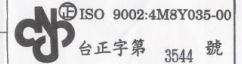
REPORT OF MATERIAL TEST

MILL CERTIFICATE

DATE: FEB. 11, 2009

Customer: 歐品電子有限公司

Commodity: C 2680 R BRASS STRIP (H)



Applied Standard: CNS 4383 Brass Sheets, Plates and Strips

台正字第 3544 號

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.			
81A414A	0.400	305.000		65.816	0.009	0.006	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	-			
81A414A	0.400	305.000		GOOD.	GOOD.	49.89	17.36	150.0 - 152.0	-	25.4

QC Supervisor

鄭建益

A920303

MINCHALI METAL INDUSTRY CO., LTD.

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