



## PRODUCT SPECIFICATION OF OUPIIN

# PRODUCT SPECIFICATION

(產品規格書)

產品名稱 Description	產品料號 Part No.	圖號 Drawing No.
Modular Jack With LED	8949-AL1881-06ABA	8949D02144
	8949-AL1881-06S1xBA	8949D02173
	8949-AL1881-06BA	8949D02175
	8949-AL188x-06S1xBA	8949D02197
Modular Jack W/O LED	8949-AL1881-06S1BA	8949D02209

PRODUCT NAME (產品名稱)	DOCUMENT No.: (文件編號)	Rev. (版本)	OUPIIN
Modular Jack AL1 Type (RoHS)	8949-AL1spec	C (I563)	(歐品)
	Approved (核準)	Checked (審核)	Prepared (製作)
	Q.A. Section Chief	Ruru Chen	2021.10.07



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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 Moular Jack Connector, 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 Moular Jack 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-C-39012C	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。



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### **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)**

Operating temperature: -40°C~+85°C, including terminal temperature rise for rating current.

溫度範圍：-40°C~+85°C，包含接觸端子的額定電流溫升。

## **4. PERFORMANCE AND TEST DESCRIPTION (性能及測試)**

### **4.1. 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。

### **4.2. 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。

### **4.3. 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

**Table I: Test Requirements and Procedures**

(附表一: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. 產品必須符合相關產品圖面的要求。	Visually, dimensions and functionally inspected per applicable product drawing. 依相關產品圖面，檢查產品的外觀、尺寸及功能。
2. Contact Resistance (接觸阻抗)	20 m $\Omega$ Max. initial. 30m $\Omega$ max final. 初始狀態最大 20 m $\Omega$ 最終狀態最大 30 m $\Omega$	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接到一個封閉回路中測試：電流 100 mA，電壓 20 mV max. EIA-364-23B
3. Insulation Resistance (絕緣阻抗)	500 M $\Omega$ Min. initial 200 M $\Omega$ Min. Final. 初始狀態最小 500 M $\Omega$ 最終狀態最小 200 M $\Omega$	Test between adjacent contacts of unmated connector for 1 minute. 500 V DC $\pm$ 10% 在未配對連接器的相鄰端子之間測試 1 分鐘。 500V DC $\pm$ 10% EIA-364-21C
4. Dielectric Withstanding Voltage (耐電壓)	No creeping discharge or flashover shall occur. Current leakage must be 0.5 mA max. 不得發生放電或閃絡，漏電流不大於 0.5 mA.	Test between adjacent circuits of unmated connector. 1KVrms at 60Hz, 1 minute between adjacent contacts. 1.5KVrms at 60Hz, 1 minute between shield and contacts. 連接器的相鄰電路之間必須承受測試 1KVrms at 60Hz，時間一分鐘 連接器的外殼與端子之間必須承受測試 1.5KVrms at 60Hz，時間一分鐘。 EIA-364-20B
5. Durability (耐久性)	After testing, no physical damage. 測試後，產品外觀無損壞。	The sample should be mounted the tester and fully mated and unmated 750 cycles specified at the rate of 25mm/min 重覆進行配合產品 750 次插拔，速度 25 mm/分鐘。 EIA-364-09C



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<p>6. Mated Force (插入力)</p>	<p>2 contacts -----1.6Kgf Max. 4 contacts -----1.8Kgf Max. 6 contacts -----2.1Kgf Max. 8 contacts -----2.3Kgf Max. 10 contacts -----2.5Kgf Max.</p>	<p>Measure the force required to mate connector. Operation speed: 25 mm/min. 測量以 25mm/分的速度從塑膠本體對插。 EIA-364-13B</p>
<p>7. Humidity (恆溫恆濕)</p>	<p>After testing, no physical damage. 測試後，產品外觀無損壞。</p>	<p>Temperature : 40±2°C 溫度：40±2°C Relative Humidity : 90-95%; 相對濕度：90-95% Duration : 96 Hours. 時間：96 小時 EIA-364-31B</p>
<p>8. Temperature Life (高溫老化)</p>	<p>After testing, no physical damage. 測試後，產品外觀無損壞。</p>	<p>Exposing in a heat chamber at a temperature of 65°C±2°C for 96 hours. 產品置於 65±2°C 連續 96 小時。 EIA-364-17B</p>
<p>9. Salt Spray (鹽霧)</p>	<p>No detrimental corrosion allowed in contact area and base metal exposed. 接觸區域和裸露的金屬不允許有害腐蝕。</p>	<p>5±1% salt concentration ,48 hours, 35±2°C. 鹽水濃度 5±1%，時間 48 小時，溫度 35±2°C EIA-364-26B</p>
<p>10. Solder ability (可焊性)</p>	<p>The inspected area of each lead must have 95% solder coverage minimum. 浸錫區域必須大於 95%</p>	<p>Soldering time: 5±0.5 Seconds 焊接時間：5±0.5 秒 Soldering Temperature: 245±5°C. 焊接溫度：245±5°C. JESD22-B102D</p>



# PRODUCT SPECIFICATION OF OUPIIN

Material Housing : I563-PA46 TE250F6 (BK)

[SGS Test Report Click here](#)

(如需 SGS 測試報告請點選此處)

**DSM Engineering Plastics (Jiangsu) Co., Ltd.**

No.18 Pan Long Shan Road, Jiangyin,  
Jiangsu Province, China 214434

Telephone: + 86-510-86-198290, Telefax: + 86-510-86198295



Date/日期	: 10.06.2019
Purchase order/客户订单号码	: 5/20-5
Order number/我方定单号码	: 971729
Delivery/Item/交货/项目	: 81339049/10
Delivery date/交货日期	: 15.06.2019
Shipment number/装运编号	: 1167620
Container ID/运输工具ID	: TWCU2074107
Customer number/客户编号	: 4020011407

## Certificate of Analysis

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Material/材料: Our / Your reference 我司/贵公司产品描述  
0000015215 TE250F6\11000\73110 /

Brandname/商品名: STANYL (R)

Batch/批号 1901160529 / Quantity/数量 10.000 KG

Characteristic 性能	Unit 单位	Value 结果	L_Limit 下限	U-Limit 上限	Method 测试方法
Moisture / 水份	%	0,041		0,100	ISO 15512
VN / 粘数	ml/g	144	125	165	ISO 307
RF Content / 填充物含量	%	30,8	28,0	32,0	ISO 3451
UL94 / 阻燃(0.8mm)		V-0			UL 94



# PRODUCT SPECIFICATION OF OUPIIN

## Material Housing :UL

UL iQ™ for Plastics

第 1 頁 , 共 1 頁

Component - Plastics

E47960

### DSM ENGINEERING PLASTICS B V

POSTBUS 604, GELEEN 6160 AP NL

### TE250F6(h1)(j)

Polyamide 4/6 (PA4/6), glass reinforced, flame retardant, "Stanyl", furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI		RTI Str
					Elec	Imp	
ALL	0.35	V-0	0	0	65	65	65
	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

Comparative Tracking Index (CTI): **2**

Dimensional Stability (%): **0.0**

High-Voltage Arc Tracking Rate (HVTR): **1**

High Volt, Low Current Arc Resis (D495): **6**

Dielectric Strength (kV/mm): **23**

Volume Resistivity (10<sup>X</sup> ohm-cm) : -

**(h1) - Virgin and regrind, up to 50% by weight inclusive, in thicknesses of 0.75mm and greater, have the same basic material characteristics, except for CTI.**

**(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.**

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:2003-01-01  
Last Revised:2007-08-21

Underwriters Laboratories Inc®



## IEC and ISO Test Methods

Test Name	Test Method	Units	Thickness	
			Tested (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.35	V-0 (ALL)
			0.75	V-0 (ALL)
			1.5	V-0 (ALL)
			3.0	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	3.0	285
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 <sup>2</sup>	-	-
ISO Izod Impact	ISO 180	kJ/m <sup>2</sup>	-	-
ISO Charpy Impact	ISO 179-2	kJ/m <sup>2</sup>	-	-

Underwriters Laboratories Inc®





# PRODUCT SPECIFICATION OF OUPIIN

Material Terminal : I563-C5210

[SGS Test Report Click here](#)

[如需 SGS 測試報告請點選此處](#)



## REPORT OF MATERIAL TEST 材料測試報告

ISO 9001  
IATF 16949  
IECQ QC080000  
ISO 14001  
OHSAS 18001 & TOSHMS

No.: 060951

DATE: JUN. 16, 2021

Customer 顧客名稱: 台灣有限公司  
Commodity 商品名稱: C5210R PHOSPHOR BRONZE FOR SPRING (H)  
Applied Standard 引用標準: JIS H 3130 Phosphor bronze sheets, plates&strips for springs

Manufacture No.	銅帶製號	04M026A	04M026B
(Specification)	產品規格	Standard	
Thickness (mm)	產品厚度	0.350	0.350
Width (mm)	產品寬度	305.000	305.000
Length (mm)	產品長度		
(Chemical Analysis Test)	化性測試		
P(%)	磷	0.030 - 0.350	0.166
Fe(%)	鐵	max. 0.100	0.012
Pb(%)	鉛	max. 0.0200	0.0026
Zn(%)	鋅	max. 0.200	0.014
Sn(%)	錫	7.000 - 9.000	7.553
Cu&Sn&P(%)	銅錫磷	min. 99.700	99.959
(Mechanical & Physical Test)	物性測試		
Thickness Test (mm)	厚度測試	-0.010 +0.000	0.347
Width Test (mm)	寬度測試	-0.10 +0.00	6000
Tensile Strength (kgf/mm <sup>2</sup> )	抗拉強度	60.00 - 72.00	60.49
Elongation (%)	伸長率	min. 28.00	36.92
Hardness Test (Hv)	硬度	185.0 - 195.0	185.0 - 187.0
Grain Size (mm)	結晶粒徑	-	-
Electric Conductivity (%)	導電率	min. 11.00	12.10
Yield Strength (Kgf/mm <sup>2</sup> )	降伏強度		53.86
(Other Information)	其他資訊		
Delivery No.	出貨單號	060367	060367

MINCHALI METAL INDUSTRY CO., LTD.  
名佳利金屬工業股份有限公司  
11, Pei-Yuan Road, Chung-Li Dist, Tao-Yuan City, Taiwan, R.O.C.  
Tel : (03)4526141-5 (03)4526017-9  
Fax : (03)4514870

QA Supervisor: 黃志平

A001201 D0305/01MH

Handwritten notes: 0.35 x 35 \* 128kg, \* 60 \* 109.6kg





# PRODUCT SPECIFICATION OF OUPIIN

Material Shell : I563-C2680

[SGS Test Report Click here](#)

[如需 SGS 測試報告請點選此處](#)

JUN-28-2021 MON 03:09 PM

BEST JOYEE

FAX No. 03 3218737

P. 001



## REPORT OF MATERIAL TEST 材料測試報告

ISO 9001  
IATF 16949  
IECQ QC080000  
ISO 14001  
OHSAS 18001 & TOSHMS

No.: 021030

DATE: FEB. 22, 2021

Customer 顧客名稱 : 召翔有限公司  
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.	鉛條號	01A186A	
(Specification)	產品規格	Standard	
Thickness (mm)	產品厚度	0.250	
Width (mm)	產品寬度	382.000	
Length (mm)	產品長度		
(Chemical Analysis Test)	化性測試		
Cu(%)	銅	64.000-69.000	64.988
Fe(%)	鐵	max. 0.050	0.010
Pb(%)	鉛	max. 0.0500	0.0019
Zn(%)	鋅	REM.	REM.
(Mechanical & Physical Test)	物性測試		
Thickness Test (mm)	厚度測試	-0.010 +0.000	0.243
Width Test (mm)	寬度測試	-0.10 +0.00	GOOD
Tensile Strength (kgf/mm <sup>2</sup> )	抗拉強度	42.00 - 55.00	48.06
Elongation (%)	伸長率	-	22.12
Hardness Test (Hv)	硬度	140.0 - 150.0	148.0 - 149.0
Grain Size (mm)	結晶粒度	-	-
Electric Conductivity (%)	導電率	-	25.50
Bending Test (Good way)	折彎試驗	-	GOOD
Bending Test (Bad way)	折彎試驗	-	GOOD
Surface Roughness Ra (um)	表面粗糙度	-	0.27
(Other Information)	其他資訊		
Delivery No.	出貨單號	020441	

6/28 0.25 x 526 x 982kg

QA Supervisor: 黃志平

A090704 L9105704AH

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