



PRODUCT SPECIFICATION

產品規格書

產品名稱 Description	產品料號 Part No.	圖號 Drawing No.
D-SUB Right Angle Type	7906-AxxMHA & 7906-AxxFHA	7906D03029

PRODUCT NAME 產品名稱	DOCUMENT No.: 文件編號	Rev. 版本	OUPIIN
D-SUB Right Angle Type (RoHS)	Q7906-PSS-001	A (I747)	歐品電子
	Approved 核准	Checked 審核	Prepared 製作
	Q.A. Section Chief	Ruru Chen	2022.05.27



PRODUCT SPECIFICATION OF OUPIIN

1. SCOPE 適用範圍

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. This product specification is applicable but not only for those part numbers which be shown in the cover page.

本產品規格書規定了由歐品電子有限公司設計生產的 D-SUB Right Angle Type 型連接器產品的特性及測試方法。本產品規格書適用於但不局限於封面所顯示的產品料號。

2. REFERENCE DOCUMENTS 參考文件

EIA364	Test method for electrical components 電子零件測試方法
IEC-52	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見圖面。

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 參見圖面。

3.3. BILL OF MATERIAL 材料清單

Harmful material controlling follows the requirements of RoHS. The bill of material 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見圖面。

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參見圖面。

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 : 3A
Rating voltage : 250V AC
額定電流 : 3A
額定電壓 : 250V AC

3.7 STORAGE AND OPERATING TEMPERATURE 儲存與使用溫度

Temperature range: -55°C~+85°C, including terminal temperature rise for rating current.
Storage Temperature : -40°C~+85°C, Humidity: 30~70%RH, Time limit is 12 months the products are stored.

溫度範圍：-55°C~+85°C,包含接觸端子的額定電流溫升。
儲存溫度：-40°C~+85°C，濕度：30~70%RH，產品限存時間為 12 個月。

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.
除非特別註明，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 at least.

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，每組測試至少有5個樣品。

4.4. TEST SEQUENCE 測試順序

Product qualification test sequence as shown in **Table II**.
產品品質測試順序見附表二。



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Table I: Test Requirements and Methods

附表一：測試要求與方法

Items 項目	Requirements 要求	Test Methods 測試方法
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 mΩ Max. 最大 20 mΩ	Subject mated contacts assembled in housing to open circuit of 100 mA max. 20 mV max. EIA-364-23. 所述固定在外殼裏的端子連結到一個斷開回路中測試，電流 100 mA max，電壓 20 mV max 適用：EIA-364-23
3. Insulation Resistance 絕緣阻抗	1000 MΩ Min. 最小 1000 MΩ	Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector. EIA-364-21. 測試產品相鄰端子間以及端子與接地間的電阻，適用：EIA-364-21。
4. Dielectric Withstanding Voltage 耐電壓	Connector must withstand test potential of 1000 VAC RMS for 1 minutes. 產品必須承受測試電壓 1000 VAC RMS，時間 1 分鐘	Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector. EIA-364-20. 對產品相鄰端子間以及端子與接地間加載電壓，並測試其漏電流。 適用：EIA-364-20。
5. Durability (Repeated Mating/Un-mating) 耐久性	After testing, no damage, Contact Resistance 20 mΩ Max. 測試後，產品無損壞，接觸阻抗最大 20mΩ	Repeat mate and unmated for connector 500 cycles, at a speed of 250~300 cycles per hour. 重復進行配合產品 500 次插拔，速度 250~300 次/小時



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6. Mating /Un-mating Force 插入力/拔出力	Mating force : 30N Max. Un-mating force : 3.3N~20N 插入力：30N Max. 拔出力：3.3N~20N	At a speed of 25.4 mm/minute, apply axial insert the mating part into fully or pull out from the subject product. 以 25.4 mm/分鐘的速度，軸向完全插入對配插件到被測產品中或從被測產品中拔出。
7. Solder-ability 可焊性	There shall have a solder coverage of 95% minimum。 產品在測試完成後，焊接部位粘錫面積大於 95%	Soldering time: 5 seconds. Temperature: 245±5°C. EIA-364-52. 焊接時間：5 秒。 溫度：245±5°C。 適用：EIA-364-52。