



PRODUCT SPECIFICATION

(產品規格書)

產品名稱 Description	產品料號 Part No.	圖號 Drawing No.
2112 Series Pin Header 2.00mm Right Angle / Straight Solder Type	2112-1XxxGxxRB	2112D01010
	2112-1XxxG00SB	2112D01001
	2112-2XxxGxxRB-x	2112D01012
	2112-2XxxG00SB	2112D01002

PRODUCT NAME (產品名稱)	DOCUMENT No.: (文件編號)	Rev. (版本)	OUPIIN
2112 Series Pin Header 2.00mm Right Angle / Straight Solder Type (RoHS)	Q2112-PSS-I001	C (I535)	(歐品)
	Approved (核准)	Checked (審核)	Prepared (製作)
	Q.A. Section Chief	Ruru Chen	2023.02.02



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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 2112 Series Pin Header 2.00mm Right Angle / Straight Solder 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生產的 2112 Series Pin Header 2.00mm Right Angle / Straight Solder 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

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 1A, rating voltage is 110V

額定電流1A，額定電壓110V

3.7. OPERATING TEMPERATURE 使用溫度

Temperature range : -40°C ~+105°C

溫度範圍：-40°C ~+105°C

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述的機械，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 10 cycles 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。



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Table I : Test Requirements and Procedures

附表一：測試要求與方法

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	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 closed circuit of 100 mA max. 20 mV max. Per EIA-364-06 所述固定在外殼裡的端子連結到一個封閉回路中測試，電流 100 mA max，電壓 20 mV max。 適用：EIA-364-06
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. Per 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	There shall be no breakdown 產品應無擊穿	Connector must withstand test potential of 500 VAC for 1 minute Per EIA-364-20 產品必須承受測試電壓 500 VAC，時間 1 分鐘 適用：EIA-364-20.
5. Retention Force 保持力	0.5 Kg/pin. Min 每支最小 0.5 Kg	Apply axial pullout force the speed rate of 25.4 mm/minute. EIA-364-29 以 25.4 mm/分鐘的速度施加軸向拉力 適用：EIA-364-29



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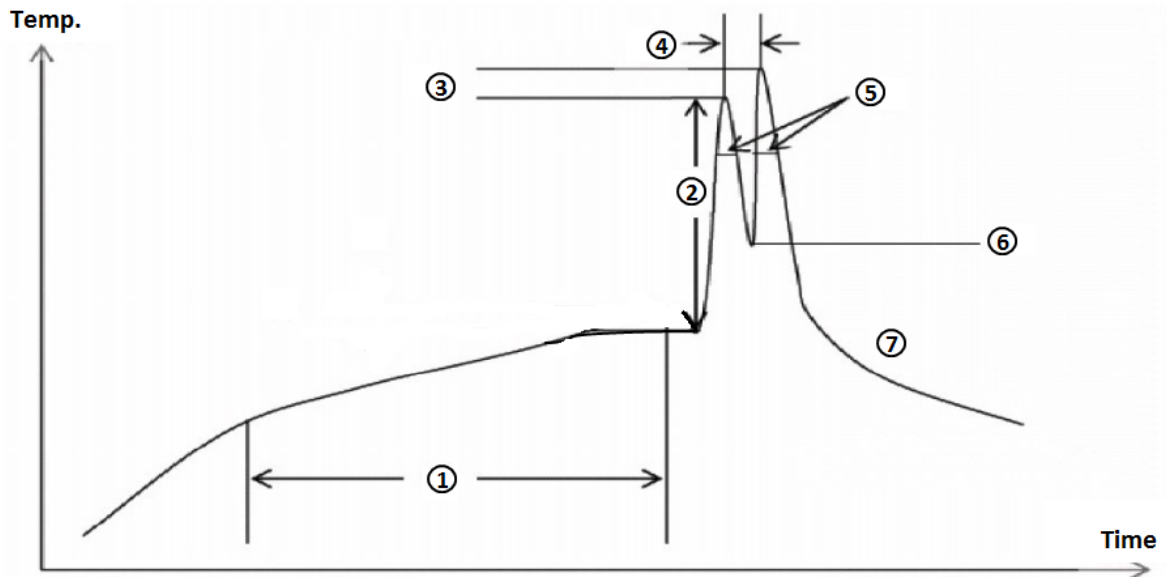
6. Solder ability 可焊性	There shall have a solder coverage of 95% minimum 產品在測試完成後，焊接部位粘錫面積 大於 95%	Soldering time: 3 to 5 seconds. Temperature: 240±5°C. Per EIA-364-52 焊接時間：3~5 秒 溫度：240±5°C 適用：EIA-364-52
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Table II : Weld the curve graph in crest

附表二：波峰焊曲線圖



- ① Preheat 80sec (1~2°C/s)
- ② $\Delta T < 150^\circ\text{C}$
- ③ 235~245°C
- ④ 1~3sec
- ⑤ Dip Time 3~6sec
- ⑥ $> 200^\circ\text{C}$
- ⑦ Cooling -5°C/s