



# PRODUCT SPECIFICATION

## 產品規格書

產品名稱 Description	產品料號 Part No.	圖號 Drawing No.
9192 Series BUSBAR CONDUCTOR	9192-BBxx(A)Bxxx	9192 -D0000-xxx
	9192 -ZBBNHA001	9192-D0000-026
	9192- BBTHxA0xx	9192 -D0000-xxx

PRODUCT NAME 產品名稱	DOCUMENT No.: 文件編號	Rev. 版本	OUPIIN 歐品電子
9192 Series BUSBAR CONDUCTOR	Q9192-PSS-004	D	
	Approved 核准	Checked 審核	Prepared 制作
			XS 02/27/25'



## 1. SCOPE 適用範圍

This product specification defines the product performance and the test methods to ascertain the performance of the BUSBAR CONDUCTOR, 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 BUSBAR CONDUCTOR 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

MIL-STD-1344	Test method for electrical connector 電子連接器測試方法
MIL-STD-202	Test method for electrical components 電子零件測試方法
EIA364	Test method for electrical components 電子零件測試方法
JIS C 0051	Test method for electrical components 電子零件測試方法
MIL-G-45204C	Specification for gold plating 鍍金規格
IEC-512-3	IEC standard for current carrying capacity tests IEC 電流測試標準
QQ-N-290A	Specification for nickel plating 鍍鎳規格
MIL-P-81728A	Specification for tin/lead plating 鍍錫鉛規格
MIL-T-10727B	Specification for tin plating 鍍錫規格
UL1977	UL standard for safety of attachment plug and receptacle UL 安規要求標準
EN/ISO5961	Determination of total lead & cadmium content 總鉛和總鎘含量測定
EN1122	Determination of total lead & cadmium content 總鉛和總鎘含量測定
EN13346	Determination of heavy metals content 重金屬含量測定
EPA3052	Determination of total lead & cadmium content 總鉛和總鎘含量測定

## 3. FEATURE & DIMENSIONS 特征及尺寸

### 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。

### 3.6 STORAGE AND OPERATING TEMPERATURE 存貯與使用溫度

Temperature range:  $-40^{\circ}\text{C}\sim+105^{\circ}\text{C}$ , including terminal temperature rise for rating current.

Storage Temperature : $0^{\circ}\text{C}\sim+40^{\circ}\text{C}$ , Humidity: 80%RH under, Time limit is 12 months the products are stored.

溫度範圍： $-40^{\circ}\text{C}\sim+105^{\circ}\text{C}$ , 包含接觸端子的額定電流溫升。

儲存溫度： $0^{\circ}\text{C}\sim+40^{\circ}\text{C}$ ，濕度：80%RH 以下，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.. 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。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。

**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	Power pin: 0.2mΩ Max. initial. Power pin 初始狀態 0.2mΩ Max,	Subject specimens to 100 milliamperes maximum and 20 millivolts maximum open circuit voltage. EIA-364-06 所述固定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. Thermal Shock 溫度沖擊	After testing, no damage, Contact Resistance: 0.4 mΩ max After testing. 測試後產品無損壞，測試後接觸阻抗 0.4mΩ Max	Temperature range from -65°C to +105°C. Start from -65°C, after 30 minutes, change to +105°C; change time is no more than 5 minutes, total 25 cycles. EIA-364-32 溫度變化範圍：-65°C~ +105°C。從 -55°C 開始，30 分鐘後換到+105°C，轉換時間不超過 5 分鐘，共 25 個循環。適用：EIA-364-32
4. Humidity-Temperature Cycle 溫濕度循環	After testing, no damage, Contact Resistance: 0.4 mΩ max After testing. 測試後產品無損壞，測試後接觸阻抗 0.4 mΩ Max	Subject product : temperature between 25°C-65°C at 80% to 98 %RH.10Cycles. Duration 96 hours. EIA-364-31 產品置於 25°C-65°C,相對濕度：80% 到 98 %,持續時間 96 小時。適用：EIA-364-31
5. Salt Spray 鹽霧	After testing, no damage, Contact Resistance: 0.4 mΩ max After testing. 測試後接觸阻抗 0.4 mΩ Max	5±1% salt concentration(PH=7.0) ,24hours 35±2°C:EIA-364-26. 鹽水濃度 5±1%(PH=7.0),時間 24 小時，溫度 35±2°C。適用：EIA-364-26。
6.High Temperature Life 高溫老化	After testing, no damage, Contact Resistance: 0.4 mΩ max After testing. 測試後產品無損壞，測試後接觸阻抗 0.4 mΩ Max	Subject product to 105°C for 96 hours · Two hours recovery time. continuously. EIA-364-17 產品置於 105°C 連續 96 小時。恢復時間 2 小時 適用：EIA-364-17



**Table II: Product Qualification Test Sequence**

附表二：產品測試順序

Test Description 測 試 描 述	Test Group 測試分組				
	A	B	C	D	
1. Conformation of Product 產品確認	1,5	1,5	1,5	1,5	
2. Contact Resistance 接觸阻抗	2,4	2,4	2,4	2,4	
3. Thermal Shock 溫度衝擊	3				
4. Humidity-Temperature Cycle 溫濕度循環		3			
5. Salt Spray 鹽霧			3		
6. High Temperature Life 高溫老化				3	