



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.
3.5mm Terminal Block	8930-C133152GBA16RB	8930D01009

PRODUCT NAME (產品名稱)	DOCUMENT No.: (文件編號)	Rev. (版本)	OUPIIN
3.5mm Terminal Block (RoHS)	8930-C133152 spec	A1 (I780)	(歐品)
	Approved (核準)	Checked (審核)	Prepared (製作)
	Q.A. Section Chief	Pandy Wu	2021.05.03



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1. SCOPE (範圍)

This product specification defines the product performance and the test methods to ascertain the performance of 3.5mm Terminal Block , 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 3.5mm Terminal Block 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)

IEC60998-1&IEC60998-2-1	端子台認證標準規範概念
IEC61984	連接器的的測試及安規要求
DIN EN 60999:1994-04	連接器件.銅導線.有螺紋式和無螺紋式夾緊裝置的安全要求
UL1059	UL 安規要求標準

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)



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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 RATING FREQUENCY and RATING VOLTAGE (額定電流,與額定電壓)

Rating current : 5.5 A

Rating voltage is 160V AC RMS.

額定電流：5.5 A

額定電壓 160V AC RMS。

3.7 OPERATING TEMPERATURE 使用溫度

Temperature range: -40°C~+115°C

溫度範圍：-40°C~+115°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)



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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)	20mΩ Max	According to IEC61984/60999-1, through the circuit, matching connector test 按照 IEC61984/60999-1，通過電路，匹配連接器測試
3. Insulation Resistance (絕緣阻抗)	5000 MΩ Min.	According to IEC60998-1, between adjacent electrodes and the ground, use voltage 1000V DC for 1 minute. 按照 IEC60998-1，在相鄰的電極及地面之間，用直流電壓測試一分鐘時間來匹配連接器。
4. Dielectric Withstanding Voltage (耐電壓)	No creeping discharge or flashover shall occur. 無火花或擊穿現象	Connector must withstand test potential of 1.32KV for 1 minute. 在相鄰的電極及地面之間，施以額定高壓 1.32KV 連續通電一分鐘。
5. High Temperature test (高溫測試)	After testing, no damage 測試後產品無損壞	Temperature : +115±2°C Duration : 168 Hours After the test, cool the product to room temperature 溫度 : +115±2°C 測試時間 : 168 小時 測試後，將產品冷卻至室溫(IEC60998-1)
6. Cold Test (低溫測試)	After testing, no damage 測試後產品無損壞	48 hours at -40±2°C, after the test, cool the product to room temperature 在-40±2°C.溫度下放48小時，測試後，將產品冷卻至室溫 (IEC60998-1)
7. Humidity test (耐濕測試)	After testing, no damage 測試後產品無損壞	Temperature: 30±2°C. Humidity : 90-95% RH Duration : 48 hours 溫度 : 30±2°C、濕度 90~95%RH，時間 48 小時。 (IEC60998-1)



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8. Salt Spray (鹽霧測試)	After testing, no damage 測試後產品無損壞	5±1% salt concentration 48±4 hours 35±2°C 鹽水濃度 5±1%，時間 48±4 小時，溫度 35±2°C。
9. Solderability (沾錫測試)	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%。	When the furnace temperature is 255~260°C, put it in at a speed of 2.5±0.5cm/s and take it out after 5 seconds. 在 260±5°C 的爐溫時，以 2.5±0.5cm/s 的速度放入， 5 秒鐘後均速取出。



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Material Housing : I780-PA66 A0520FN

[SGS Test Report Click here](#)

[如需 SGS 測試報告請點選此處](#)



G I N A R T E C H N O L O G Y C O . L T D .

顾客 Client:	/	制造商 Manufacturer:	江苏普伦塑料科技有限公司
产品牌号 Product Grade:	A0520FN 1C39	发货数量 Quantity:	/
生产批号 Lot No:	C732009100	发货日期 Shipping Date:	/

Certificate of Quality

物理性能	检测方法	单位	标准	检验结果
密度	ASTM D792	g/cm ³	1.60~1.65	1.64
机械性能				
拉伸强度	ASTM D638	MPa	≥125	152
断裂应变	ASTM D638	%	≥1.5	1.8
缺口冲击强度	ASTM D256	J/m	≥70	134
阻燃性能				
UL 阻燃等级	UL94	Class	V0(0.8mm)	V0

檢驗結果

合格

※我们依据上述检测结果判定该批产品符合质量标准要求 We hereby certify that this batch of product is in conformity with the Quality Control Standards

Ginar Engineering Plastics

Quality Assurance Department

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检验员 (Inspector):

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审核人 (Checker):

PJ

报告日期 (Issue date) 2020/09/22

品管專用章





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Material Housing :UL

PROSPECTOR®

View additional material information including performance and processing data.

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The information presented on the UL Prospector datasheet was acquired by UL Prospector from the producer of the material. UL Prospector makes substantial efforts to assure the accuracy of this data. However, UL Prospector assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

Component - Plastics
[guide info]

E154352

GINAR TECHNOLOGY CO LTD

29-45 HSU TSOU KANG, TA YUAN HSIANG TAOYUAN 337 TW

A0520FN(+)

Polyamide 66 (PA66), glass reinforced "MAPEX", furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	0.4	V-0	0	0	120	105	130
	0.75	V-0	0	0	130	115	140
	3.3	V-0	0	0	130	125	155

Comparative Tracking Index (CTI): 2

Dielectric Strength (kV/mm): 16

High-Voltage Arc Tracking Rate (HVTR): 0

Dimensional Stability (%): -

Inclined Plane Tracking (IPT): -

Volume Resistivity (10¹² ohm-cm): 11

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

(+) - May be replaced by one to five numbers and/or letters, denoting color codes.

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: 1993-10-26

Last Revised: 2017-09-27

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IEC and ISO Test Methods

Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.4	V-0 (ALL)
			0.75	V-0 (ALL)
			3.3	V-0 (ALL)
GlowWire Flammability (GWFI)	IEC 60695-2-12	°C	0.4	960
			0.75	960
GlowWire Ignition (GWIT)	IEC 60695-2-13	°C	0.4	850
			0.75	875
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	°C	-	165
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 ²	-	-
ISO Izod Impact	ISO 180	kJ/m ²	-	-
ISO Charpy Impact	ISO 179-2	kJ/m ²	-	-



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Material Contact : I780-C1100

[SGS Test Report Click here](#)

[如需 SGS 測試報告請點選此處](#)

REPORT OF MATERIAL TEST

Commodity: Tough Pitch Copper C1100 R 品名 高导电铜	State: H 状态 硬
Excutive Standard: JIS H 3100 Tough-Pitch Copper Sheets, Plates and Strips 执行标准	

Chemical Analysis Test						
Work No 产品编号	Size of Product 产品规格			Cu(%) Min. 99.90		
	厚度 Thickness (mm)	宽度 Width (mm)	长度 Length (mm)			
	Standard					
20P625H	0.8	29	-----	≥99.90		

Mechanical & Physical Test										
Work No 产品编号	产品规格 Size of Product			尺寸检测 Dimension Test		张力测试 Tension Test		硬度 HardnessTest HV	结晶粒度 Grain Size (mm)	导电率 Electric 20℃ Conductivity (%)
	厚度 Thickn ess (mm)	宽度 Width (mm)	长度 Length (mm)	厚度 Thickne ss (mm)	宽度 Width (mm)	抗拉强度 TensileStren gth (kgf/m m²)	伸长率 Elongatin (%)			
		标准 Standard			±0.02	+0 -0.1	30 以上	Min. 5 以上	100—130	0.02
20P625H	0.8	29	---	0.78	28.94	35.6	6.2	107	0.02 以上	97 以上