

PRODUCT SPECIFICATION

(產品規格書)

Ordering information

9111- 4 B A 001 G1 B

Series 4: For A:Coaxial pin Pin Type See Above B: Bulk

4: For A: Coaxial pin Pin Type See Above B: Bulk
4 Rows Use B: Power pin Package

PRODUCT NAME (產品名稱)	DOCUMENT No.: (文件編號)	Rev. (版本)	OUPIIN	
H.D. 2.0mm	9111spec-4B	A2	(歐品) Prepared (製作)	
Power Connector	Approved (核準)	Checked (審核)		
(RoHS)	Q.A. Section Chief	Amy Chiu	APR.12/2011	



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(範圍) 1. SCOPE

This product specification defines the product performance and the test methods to ascertain the performance of the H.D. 2.0mm Power 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 H.D. 2.0mm Power Connector 型連接器,產品的特性及測試方法.)

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)

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. Products required carrier tape should meet the proper specification per purchase order. Connector



container and the packaging specification is shown in package drawing.

(產品包裝可依客戶指定要求.本產品採用 Tube Package 包裝,具體見包裝圖面.)

3.6 STORAGE AND OPERATING TEMPERATURE 儲存與使用溫度

Temperature range: -65°C~+125°C, including terminal temperature rise for rating current.

溫度範圍:-65°C~+125°C,包含接觸端子的額定電流溫升。

4. ENVIRONMENTAL (環境要求)

4.1. SOLDERABILITY (可焊性)

Connectors meet solder ability to MIL-STD-202F. Finish shall be free of contaminants. (產品可焊性符合 MIL-STD-202F 標準規定的相關要求,表面不得有污染物.)

4.2. RESISTANCE TO SOLDER HEAT (耐焊接熱)

WAVE SOLDERING (波峰接)

Each cycle consists of three consecutive phases.

(每個焊接週期包括三個連續的階段)

1. Preheat (預熱)

The steady temperature of the preheat zone is 90~125°C.

(預熱區最終溫度控制在90~125°C)

2. Soldering (焊接)

To avoid the secondary tin-melting, the temperature on PCB upper surface is 160°C Max. for products with lead, or 200°C Max. for lead-free products. The temperature of the PCB bottom surface shall not be exceed 100°C more than the temperature of the PCB upper surface. The peak temperature is during 230~255°C for products with lead, or 255~265°C for lead-free products. The tin dip time is duration for 3~10 seconds.

(有鉛產品板面溫度不得超過160°C,無鉛產品板面溫度不得超過200°C,以防止貼片零件二次熔錫。板面溫度與板底的溫度溫差不得超過100°C。板下溫度峰值有鉛產品維持在230~255°C,無鉛產品控制在255~265°C。浸錫時間控制在3~10秒。)

3. Cool Down (冷卻)

Cool down shall not exceed 6°C per second.

(冷卻速度不超過6℃/秒.)

Note: (說明)

Device temperature measurements are referenced from the top-center of the package outer surface.

(設備溫度量測時以從頂部中間位置測量為準.)



DUPIIN PRODUCT SPECIFICATION OF OUPIIN

5. PERFORMANCE AND TEST DESCRIPTION

(性能及測試)

5.1. 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.)

5.2. 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;)

5.3. 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;)



Test Requirements and Procedures Table I:

(附錄一:測試要求)

Items (項目)	Requirements (要求)	Test Methods (檢測方法)
1. Confirmation of	Product shall be conforming to the	Check the dimensions and functions per
Product	requirements of applicable product	applicable product drawing in your eyes.
(產品確認)	drawing.	(目視,尺寸及功能依產品圖面檢查)
	(產品必須滿足相關檔的規定)	
2. Insulation	1000 MΩ Min.	Measure by applying test potential between the
Resistance	(最小)	adjacent contacts, and between the contacts and
(絕緣阻抗)		ground in the mated connector.
		MIL-STD-202, Method 302,
		Condition B (500 V DC±10%).
		(測試產品端子間以及端子與接地間的電阻,適用:
		MIL-STD-202,方法 302,條件 B)(500V DC±10%)
3. Durability	Contact Resistance: 30 m Ω Max.	The sample should be mounted the tester and fully
(耐久性)	after testing.	mated and unmated 250 cycles specified at the rate
	(測試後接觸阻抗最大 $30m\Omega$)	of 100 cycles/hour
		(重復進行配合產品 250 次插拔.)
		Frequency of operations: 100 cycles/h
		Speed of operations:10 mm/s max.
		Rest:30 s, unmated.
4.Resistance to	No damage	Leave subject product in the 260±5°C chamber
soldering heat	產品無損壞	for 10 Seconds
耐焊接热		產品置於 260±5°C 烘箱内 10 秒。



Material Housing: 009-LCP

SGS Test Report Click here

如需 SGS 測試報告請點選此處



Zenite[™] LCP

liquid crystal polymer resin

ZeniteTM 6130(L) BK & WT 30% Glass Reinforced Liquid Crystal Polymer Resin

ZeniteTM 6130(L) is a 30% glass reinforced LCP resin having excellent toughness and an HDT of 260 C. The L version is lubricated . It is suited for use in automotive, electrical/electronic, telecommunications, and aerospace applications.

Property	Test Method	Units	Value
Mechanical			
Tensile Strength, 0.8mm (0.032in)	ASTM D 638	MPa (kpsi)	
-40C (-40F)	1		250 (36.3)
23C (73F)	1	ļ .	165 (23.9)
120C (250F)			82 (11.9)
149C (300F)	1		55 (8.0)
200C (392F)	i		22 (3.2)
250C (482F)			21 (3.0)
Tensile Strength, 3.2mm (0.125in)	ASTM D 638	MPa (kpsi)	, ,
-40C (-40F)			185 (26.8)
23C (73F)	1		130 (18.8)
120C (250F)	1		60 (8.7)
149C (300F)			50 (7.3)
200C (392F)			35 (5.2)
250C (482F)			14 (2.0)
Elongation at Break	ASTM D 638	%	2.5

Contact DuPont for MSDS, general guides and/or additional information about ventilation, handling, purging, drying, etc. Mechanical properties measured at 23°C (73°F) unless otherwise stated. Mechanical properties measured at 3.2mm (0.125in) unless otherwise stated.

During molding, use protective equipment and clothing. Skin contact with molten Zenite™ resins can cause severe burns. Be particularly alert during purging.

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The data listed here fall within the normal range of product properties but they should not be used to established specification limits nor used alone as the basis of design.

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Dial DuPont First (800) 441-0575 • Automotive Inquiries (800) 533-1313



Material Housing: UL

UL iQ™ for Plastics

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Component - Plastics

E344082

TICONA

ZENITE BUSINESS LINE, 8040 DIXIE HWY, FLORENCE KY 41042

6130(+)

Liquid Crystal Polymer (LCP), "ZENITE", furnished as pellets

	Min Thk	Flame			RTI	RTI	RTI
Color	(mm)	Class	HWI	HAI	Elec	Imp	Str
BK	0.19	V-0	-	-	130	130	130
ALL	0.38	V-0	4	4	130	130	130
	0.75	V-0	3	4	240	220	240
	1.5	V-0	1	4	240	220	240
	3.0	V-0	0	4	240	220	240

Comparative Tracking Index (CTI): 4

High-Voltage Arc Tracking Rate (HVTR):

Dimensional Stability (%): High Volt, Low Current Arc Resis (D495): -

Thickness

(HVTR): *
Dielectric Strength (kV/mm): -

Volume Resistivity (10^x ohm-cm) : -

(+) - Virgin and regrind up to 50% by weight inclusive, have the same basic material characteristics.

NOTE - (1) Material designations that are color pigmented may be followed by suffix letters and numbers. (2) Material designations may be prefixed by "ZEN" for Zenite grades.

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: 1989-10-11 Last Revised: 2010-12-31

Underwriters Laboratories Inc®



IEC and ISO Test Methods

			HIICKHESS	
Test Name	Test Method	Units	Tested (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.19	V-0 (BK)
			0.38	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)	-	100
IEC Ball Pressure	IEC 60695-10-2	C	-	-
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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