

PRODUCT SPECIFICATION

(產品規格書)

Ordering information

4575- 1X 15 T DP 1 T

Series 1: Single No. of T: Tin Plated D:SMD Type 1:Side Entry U: Tube Package

Row Pin Count G00: P:With Post (Right Angle) T: Tape & Reel Package

02~15 Gold Flash

4575- 1X 30 T DN1 T

Series 1: Single 20, 25, 30 T: Tin Plated D: SMD Type T: Tape & Reel Package

Row No. of N:Without Post

Pin Count 1: Side Entry

A2:OCT.25/2011 A3:JAN.06/2016(温渡)

PRODUCT NAME	DOCUMENT No.:	Rev.	OUPIIN
(產品名稱)	(文件編號)	(版本)	
Wire to Board	4575spec	A3(I704)	(歐二)
1.25mm	Approved	Checked	Prepared
	(核準)	(審核)	(製作)
(RoHS)	Q.A. Section Chief	Sunny Tsai	OCT.25/2011



1. SCO	PE(範圍)3	
2 DEE	EDENCE DOCUMENTS(会类文件)	
Z. KEFI	ERENCE DOCUMENTS(参考文件)3	
3. FEA	TURE & DIMENSIONS(特徵及尺寸)3	
3.2. PCI 3.3. BIL 3.4. ME	ODUCT DIMENSION (產品尺寸)	
3.6 RA	TING CURRENT AND RATING VOLTAGE (額定電流與額定電壓)4 DRAGE AND OPERATING TEMPERATURE (儲存使用溫度))4	
4. Envi	ronmental(環境要求)4	
<i>4.2. RE</i> INF 1 I 2 S	A SISTANCE TO SOLDER HEAT(耐焊接熱) 4 PRARED REFLOW(紅外線回流焊接) 4 Preheat(預熱) 4 Soldering(焊接) 4 Cool Down(冷却) 4	
<i>5</i> . PER	FORMANCE AND TEST DESCRIPTION(性能及測試)5	
5.2. TE	ST CONDITION(測試條件)	
Table I	: Test Requirements and Procedure6	
(附錄一	: 測試要求)	
Table II	l: Reflow soldering profile7	
(附錄二	: 回流焊接曲線圖)	
Table II	II: Material8-12	
(附錄三	: 材料證明)	



1. SCOPE (範圍)

This product specification defines the product performance and the test methods to ascertain the performance of the Wire to $Board\ 1.25mm$, 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 Wire to Board 1.25mm,型連接器,產品的特性及測試方法.)

2. REFERENCE DOCUMENTS (參考文件)

MIL-STD-1344A 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)

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, 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 CURRENT AND RATING VOLTAGE 額定電流與額定電壓

Rating current is 1.0A, rating voltage is 100V DC/AC RMS.

額定電流 1.0A,額定電壓 100V DC/AC RMS。

3.7 STORAGE AND OPERATING TEMPERATURE 儲存與使用溫度

Temperature range: -35°C~+85°C, including terminal temperature rise for rating current.

溫度範圍:-35°C~+85°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-202. Finish shall be free of contaminants.

(產品可焊性符合 MIL-STD-202 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)

INFRARED REFLOW (紅外線回流焊接)

Three cycles. Each cycle consisting of three consecutive phased.

(三個週期,每個週期包括三個連續的階段完成;)

1. Preheat (預熱)

Increase in temperature not to exceed $4^\circ\!\mathbb{C}^{}$ per second.

(溫度增加不超過 4℃ /秒,)

2. Soldering (焊接)

Maximum allowable time above reflow temperature of $150\sim200^{\circ}$ C is $90\sim120$ seconds. Maximum temperature in this interval is 250° C, not to exceed 5 seconds.

(回流焊溫度150~200℃時最長不超過90~120秒. 最高溫度250℃時間不超過5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准.)



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;)



Table I: Test Requirements and Procedures

(附錄一:測試要求)

	(門) 必然 • /火リ豆	<u> </u>			
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)	Check the dimensions and functions per applicable product drawing in your eyes. (目視,尺寸及功能依產品圖面檢查)			
2. Contact Resistance (接觸阻抗)	30 mΩ Max. initial (最大.初態)	Subject mated contacts assembled in housing to closed circuit of 100 mA max. at open circuit voltage of 10 mV max. (所述固定在外殼裏的端子連結到一個封閉回路中測試:電流 100 mA,電壓 10 mV max.)			
3. Insulation Resistance (絕緣阻抗)	500 MΩ Min. (最小)	Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector. MIL-STD-202, Method 302, Condition B (250 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)(250V DC±10%)			
4. Dielectric Strength (耐電壓)	Connector must withstand test potential of 500 V AC for 1 minute. Current leakage must be 0.5 mA max. (樣品必須承受測試電壓 500V AC,時間一分鐘,漏電流不大於 0.5 mA.)	Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector. MIL-STD-202, Method 301. (測試產品端子間以及端子與接地間的電壓,適用:MIL-STD-202,方法 301。)			
5. Solder ability Test (可焊性測試)	Appearance of the specimen shall be inspected after the test with the assistance of a magnifier capable of giving a magnification of 10 X for any damage such as pinholes, void or rough surface. (樣品在測試完成後,在放大倍數為 10 倍的顯微鏡下,檢查外觀損壞如:小孔,空焊,外觀粗糙度;)	Soldering time: 3 to 5 Seconds (焊接時間: 3~5 秒) Soldering Temperature: 255±5°C. (焊接溫度: 255±5°C.)			

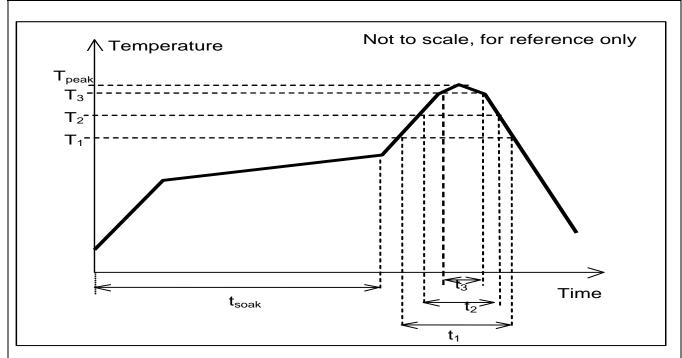


Table II: Reflow soldering profile

(附錄二:回流焊接曲線圖)

Pb-free reflow profile requirements: (無鉛回流焊接曲線)

Parameter (參數)	Reference (參考)	Specification (規格)
Average Temperature Gradient in Preheating (平均預熱溫度)		2.5°C/s
Soak Time 25~150°C	T_{soak}	60 Seconds (max)
Time Above 150~200°C	t ₁	120 Seconds (max)
Time Above 200~230°C	t ₂	50 Seconds (max)
Time Above 230~245°C	t ₃	5 Seconds (max)
Peak temperature in reflow (回流焊接中最高溫度)	T_{peak}	250°C (-5/+0°C)
Temperature Gradient in Cooling (冷卻時溫度幅度)		Max -5°C/s



This profile is the minimum requirement for evaluating soldering heat resistance of components. Heat transfer method used for reflow soldering is hot air convection. The actual air temperatures used to achieve the specified profile largely dependent on the reflow equipment.

(這個曲線圖是評估原器件焊接抗熱的基本要求. 應用在對流焊接中的熱傳遞方式是熱氣對流. 達到特定曲線圖的實際溫度主要依賴於回流焊接設備.)



Material Housing: I704-PA6T (NC)

SGS Test Report Click here

如需 SGS 測試報告請點選此處

Product Information

DuPont[™] Zytel[®] HTN

high performance polyamide resin

PRELIMINARY DATA

Zytel® HTNFR52G30LX NC010

Zytel* HTNFR52G30LX NC010 is a 30% glass reinforced, flame retardant, lubricated high performance polyamide

B	Test Method	TT	Value
Property	1 est Method	Units	DAM
Mechanical			
Stress at Break	ISO 527	MPa	181
Strain at Break	ISO 527	9/0	2.5
Tensile Modulus	ISO 527	MPa	10000
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m^2	11
Thermal			
Deflection Temperature	ISO 75f	$^{\circ}\mathrm{C}$	
1.80MPa			282
Melting Temperature	ISO 11357-1/-3	$^{\circ}\mathrm{C}$	
10°C/min		0	310
Electrical			
Surface Resistivity	IEC 60093	ohm	1E15
Relative Permittivity	IEC 60250		
1E6 Hz			3.8
Volume Resistivity	IEC 60093	ohm m	1E15
Dissipation Factor	IEC 60250	E-4	
1E6 Hz			150
Electric Strength	IEC 60243-1	kV/mm	
2.0mm			24
Flammability			
Flammability Classification	UL94		
0.8mm			V-0

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc. ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm unless otherwise stated.

Test temperatures are 23°C unless otherwise stated.

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

The DuPont Oval Logo, DuPont™, The miracles of science™ and Zytel® are trademarks or registered trademarks of DuPont Company. Copyright© 2004.

041214/041220

The information provided in this data sheet corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the special constant and the second and any not be valid for such material used in combination with any other materials, additives or ginements or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design, they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since DuPort cannot anticipate all variations in actual end-use conditions DuPort makes no warranties and assumes no liability in cornection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights. DuPont addises you to seek independent coursel for a freedom to practice opinion on the intended application or end-use of our products. Caution: Do not use this product medical applications involving permanent implantation in the human body.

For other medical applications see "DuPont Medical Caution Statement", H-50102.

QUPOND

The miracles of science

plastics.dupont.com



Product Information

Zytel® HTNFR52G30LX NC010

Dwa waster	Test Method	Units	Value
Property	1 est Memod	Units	DAM
Other		592	
Density	ISO 1183	kg/m ³	1630
Moulding Shrinkage	ISO 294-4	0/0	
Normal, 2.0mm			0.8
Parallel, 2.0mm			0.3
Processing			
Melt Temperature Range		°C	325-330
Mould Temperature Range		°C	60-130
Drying Time, Dehumidified Dryer		h	6-8
Drying Temperature		$^{\circ}\mathrm{C}$	100
Processing Moisture Content		%	<0.1

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

The DuPont Oval Logo, DuPontTM, The miracles of science TM and Zytel® are trademarks or registered trademarks of DuPont Company. Copyright© 2004. 041214/041220

knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the special constenal designated; these data may not be valid for such material used in combination with any other materials, additives or pigments or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design, they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since DuPont cannot anticipate all variations in actual end-use conditions DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infinge any patent rights. DuPont advises you to seek independent counsel for a freedom to practice opinion on the intended application or end-use of our products. Caution: Do not use this product in medical applications involving permanent implantation in the human body.

For other medical applications see "DuPont Medical Caution Statement", H-50102.



plastics.dupont.com

ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm unless otherwise stated. Test temperatures are 23°C unless otherwise stated.



Material Housing: UL

UL iQ for Plastics Yellow Card

第1頁,共1頁

QMFZ2 Component - Plastics

Friday, October 24, 2003

E41938

E I DUPONT DE NEMOURS & CO INC ENGINEERING POLYMERS CHESTNUT RUN PLAZA PO BOX 80713 WILMINGTON DE 19880

Material Designation: HTNFR52G30BL(+)

Product Description: Polyamide 6T/66 (PA6T/66), designated "ZYTEL" furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
ALL	0.75	V-0	0	0	140	120	120	925	960
ALL	1.5	V-0	0	0	140	120	120	925	960
NC, BK	1.5	V-0, 5VA	0	0	140	120	120	925	960
ALL	3.0	V0	0	0	140	120	130	960	960
	CTI: 1		HVT	R: 0	D49	95: -	IEC	BP: -	

(+)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 "ZYT" or "MIN" or "ZEN" or "DEL" or "CRA" or "RYN".

Report Date: 8/22/1996

Underwriters Laboratories Inc®

324299147

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.

UL iQ for Plastics Yellow Card

第1頁,共1頁



QMFZ2 Component - Plastics

Tuesday, May 04, 2004

E41938

E I DUPONT DE NEMOURS & CO INC ENGINEERING POLYMERS CHESTNUT RUN PLAZA PO BOX 80713 WILMINGTON DE 19880

Material Designation: HTNFR52G30LX

Product Description: Polyamide 6T/66 (PA6T/66), designated "Zytel" furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
NC, BK	0.4	V-0	-	-	65	65	65	=	=
ALL	0.75	V-0	0	0	140	120	120	875	960
	1.5	V-0	0	0	140	120	120	875	960
	3.0	V-0	0	0	140	120	130	875	960
	CTI: 2	HVTR: 1			D495: -			IEC Ball P	ressure

Dielectric Strength

ength (M) Tensile

Ysor Frexuraistivity (the composition): 14 ISO Izod Impact (kJ/m²): -

Dimensional Stability(%): 0 ISO Heat Deflection (°C): -**ISO Charpy**

Impact (kJ/m²): -

Impact (kJ/m²): -

(1) Material designations that are color pigmented may be followed by suffix letters and numbers. (2) Material designations may be prefixed by "ZYT" or "MIN" or "ZEN" or "DEL" or "CRA" or "RYN".

Report Date: 8/22/1996

Underwriters Laboratories Inc®

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.



Material Contact : Copper Alloy (Phosphor Bronze)

SGS Test Report Click here

如需 SGS 測試報告請點選此處

MINCHALI

REPORT OF MATERIAL TEST

DATE: FEB.23,2005

GD 1SO 9002:4M8Y035-00 台正全# Commodity: C 5191 R PHOSPHOR BRONZE STRIP (H) Customer: 政品電子有限公司 Applied Standard: CNS 9503 Phosphor Bronze Sheets, Plates and Strips

					Chemical	Analysis	Test		
Work No.	Size	of Prod	luct		Sn(%)	Cu+Sn+P(%)		II .	
	Thickness (mm)	Width (mm)	Length (mm)						
	Standard			0.030 - 0.350	5.50 - 7.00	min. 99.50			P.O. NUMBER
3CC195A	0.300	305.000		0.145	6.000	99.974			

	Size	of Prod	luct	Dimens	ion Test	Tensio	n Test	Hardness Test	Grain Size (mm)	Electric
Work No.	Thickness (mm)	Width (mm)	Length (mm)	Thickness (mm)	Width (mm)	Tensile Strength (kgf/mm²)	Elongation (%)	HV		Conductivity (%)
	Standard			-	(-) 0.10 - (+) 0.00	min. 58	7	min. 170	min. 170 -	=
3CC195A	0.300	0.300 305.000		G00D.	G000.	63.57	21.38	201.0 - 203.0	-	14.4
										-

MINCHALI METAL INDUSTRY CO., LTD.
11, Pei Yuan Road, Chung Li City, Taiwan, R. O. C.
Tel: (03)4526141-5 (03)4526017-9

鄭建益 QC Supervisor



Material Solder Pad: Copper Alloy (Phosphor Bronze)

SGS Test Report Click here

如需 SGS 測試報告請點選此處

MINCHALI

REPORT OF MATERIAL TEST

DATE: FEB.23,2005

GD 1SO 9002:4M8Y035-00 台正全# Commodity: C 5191 R PHOSPHOR BRONZE STRIP (H) Customer: 政品電子有限公司 Applied Standard: CNS 9503 Phosphor Bronze Sheets, Plates and Strips

					Chemical	Analysis	Test	.+		
	Size of Product			P(%)	Sn(%)	Cu+Sn+P(%)		17 2		
Work No.	Thickness (mm)	Width Length (mm)								
	Standard			0.030 - 0.350	5.50 - 7.00	min. 99.50	_			P.O. NUMBER
3CC195A	0.300	305.000		0.145	6.000	99.974				

	Size	of Prod	luct	Dimensi	Tensio	n Test	Hardness Test	Grain Size	Electric	
Work No.	Thickness (mm)	Width (mm)	Length (mm)	Thickness (mm)	Width (mm)	Tensile Strength (kgf/mm²)	Elongation (%)	HV	(mm)	Conductivity (%)
	St	Standard - (-) 0.10 - (+) 0.00 min. 58		min. 58	-	min. 170 -		-		
3CC195A	0.300 305.000		300 305.000 G00D. G00D.		63.57	21.38	201.0 - 203.0	-	14.4	
				£						

MINCHALI METAL INDUSTRY CO., LTD.
11, Pei Yuan Road, Chung Li City, Taiwan, R. O. C.
Tel: (03)4526141-5 (03)4526017-9

鄭建益 QC Supervisor