



Type Document	Product Specification	Revised /Edition	D
Date Issued	2009/7/25	Data Revised	2014/03/12
Subject : JS-1252 JS-1252-T Pitch 1.25mm Series Board In Connector			Issued By: Engineering Dept.

This specification is referred to 1.25mm series Board In connector.

本規格書內容係提供 1.25 mm 系列產品相關參考，
其用途為電線端直接嵌入電路板之連接器

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REV. (版本)	Revision Record (改版變更原因)	Date(日期)	ECN No.
B	增加中文敘述 以及增加版本變更註記欄	2010/02/12	EC2010-02-012
C	鹽水噴霧週期以電鍍方式區隔為 8 小時與48 小時；	2011/05/06	EC2011-05-015
D	1.增訂3.5項Storage of Package以及 3.6 項Floor Life 2.刪除硫化氫 3.修正(EIA-364) 參考規範 4. 依安規認證增列額定電壓 5.增列Wave Peak Soldering In- Process Temperature Profile 6. Solder Ability 附註Tin Plated : 95% / Gold Plated : 75%	2014/03/12	EC2014-03-012



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1.0 Product Name/Part Number & Drawing Number(產品名稱 / 產品型號及圖面型號):

Product Name(產品名稱)	Part Number(零件型號)	Drawing Number(圖面型號)
Crimp Terminal		JS-1252-T
Housing		JS-1252-XX

Note: (xx) The number of the circuits. I

2.0 Construction/Dimensions/Material & Surface Finish(材質以及表面鍍層):

Part Name(零件名稱)	Material(材質)	Surface Finish(表面鍍層)
Crimp Terminal (鍍壓端子)	Phosphor Bronze	Tin-Plated
Housing (膠座)	Nylon 66	UL 94V-0

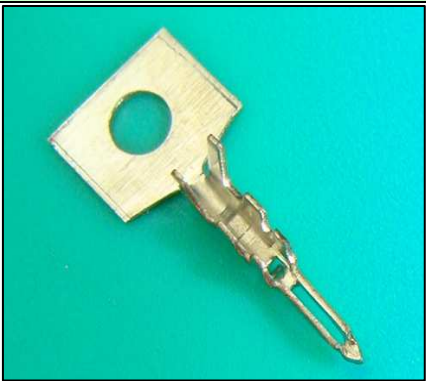
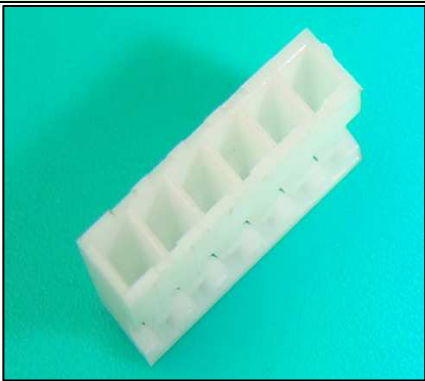
3.0 Characteristic(產品特性):

Item(項目)	Standard(標準規範)	
3.1 額定電流 Rated Current	1A AC/DC With AWG #28 is applied(相對適用於美國電線規格 UL1007 AWG #28)	
3.2 額定電壓 Rated Voltage	125 V AC/DC	
3.3 Ambient Temperature Range 環境與操作溫度範圍	(操作使用溫度與濕度範圍) Operating Temp.: -25°C~+85°C ; 85% R.H. Max Including 30°C Terminal Temperature Rise at rated Current , (包括定額電流內, 端子所產生 30°C以下溫昇)	
3.4 Applicable Wire 適用電線	3.4.1 (金屬導體之型號) Conductor Construction Size: AWG #28~#32	
	3.4.2 (電線絕緣材質外徑) Wire Insulation O.D.: 0.5mm~1.0mm	
3.5 Storage of Package 包裝未拆封之保存	Temperature and Humidity Condition 溫濕度條件	Temperature 溫度 : -10°C~+40°C Percentage Humidity 相對濕度 : 70 % Max
	Term 保存期限	Housing 2 Years Crimp Terminal 1 Year
3.6 Floor Life 拆封後使用期限	Crimp Terminal	3 Months



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4.0 Specimen(樣本圖示) :

Part Name / Part Number / Picture or Photograph 零件名稱 / 零件型號 / 樣本圖示			
Crimp Terminal JS-1252-T		Housing JS-1252-XX	

5.0 Applicable Standards(適用規範):

ANSI/EIA 364 ; EIA/ECA 364 Testing method for electrical connectors.

電子連接器，所適用之 ANSI/EIA 364 ; EIA/ECA 364 測試規範

6.0 Mechanical Performance(機械性能):

Item(項目)		Test Condition(測試條件)	Requirement(規格)
6.1	Wire Pullout Force(Axial) 電線脫離端子包覆之拔出力	Pull out the cable from with contact terminal at the speed rate of 25 .4± 3 mm/minute. 對端子所包覆電線，施以每一分鐘 25 .4± 3 mm 速率之軸向拔出力 (EIA 364-08B)	AWG#28 size wire 1.0kgf/Min.(9.80N 牛頓)
			AWG#30 size wire 0.5kgf/Min.(4.90N 牛頓)
			AWG#32 size wire 0.3kgf/Min.(3.0N 牛頓)
6.2	Crimp Terminal Retention Force (in Housing) 柳線端子與膠座之間拔出力	Axial pullout force on the terminal in the housing at the speed rate of 25.4 ± 3 mm per minute. 對於已經存在於膠座當中柳線端子，施以每一分鐘 25 .4± 3 mm 速率之軸向拔出力	單一接觸點 Per Contact 最小容許值 1.5kgf/Min.
6.3	Crimp Terminal Insertion Force (into Housing) 柳線端子與膠座之間嵌入力	Insert the crimped terminal into the housing at the speed rate of 25.4 ± 3 mm per minute. 以每一分鐘 25.4 ± 3mm 速率之軸向嵌入力,將柳線端子嵌入膠座當中	單一接觸點 Per Contact 最小容許值 0.5kgf/Min.



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7.0 Electrical Performance(電氣性能) :

Item(項目)	Test Condition(測試條件)	Requirement(規格)
7.1 Contact Resistance on Crimped portion 電線與铆壓端子之間 接觸阻抗	Crimp the applicable wire on to the terminal, Measure by dry circuit , 20mV Max, 10mA 將適合規格的電線包覆於端子當中，於其兩端施以最大電壓 20mV 以及最大電流 10mA (EIA/ECA 364-23C)	10 milliohms Max. 最大容許值. 10m 歐姆
7.3 Insulation Resistance 絕緣阻抗	Apply 500V D/C to any two adjacent contacts to measure the insulation resistance. 對相鄰兩接觸導體，各施以 500V D/C 電壓以量測其間絕緣阻抗值 (EIA 364-21C)	Insulation Resistance: Initial 100 megohms Min 最初容許值. 100 M 歐姆
7.4 Withstanding Voltage 耐電壓	Apply 250V A/C (rms) for 1 minute and the leakage current shall not exceed 0.5mA to the adjacent terminal and ground of the mate connectors. 對組合狀態下連接器，於其相鄰兩導體末端各施以電壓 250V A/C(實效值) 時間 1 分鐘，且漏電流必須小於 0.5mA(毫安培) (EIA 364-20C)	No breakdown or flashover. 無損毀或者產生火花

8.0 Environmental Performance(環境性能) :

Item(項目)	Test Condition(測試條件)	Requirement(規格)
8.1 Humidity (Steady State) 恆溫恆濕	A housing connected with cable shall be placed in a humidity chamber of the following conditions. After the test, the contact resistance, the insulation resistance and the dielectric withstanding voltage shall be measured. 將電線包覆於端子然後嵌入膠座當中，而後放置於恆定溫度與濕度的空間，依照隨附如下規格要求，進行恆溫恆濕試驗，並於試驗過後量測其接觸阻抗、絕緣阻抗、以及耐電壓測試。 (EIA/ECA 364-28E-Condition 1) Temperature(溫度) : 40±2°C. Relative Humidity(相對濕度) : 90%~95% (RH). Period(週期) : 96 hours continuously. (持續 96 小時)	(After the test) Contact Resistance on Crimped portion : 20 milliohms Max. 經恆溫恆濕試驗後電線與包覆端子之間接觸阻抗: 最大容許值. 20m 歐姆
		(After the test) Insulation Resistance : 10 Megohms Min. 經恆溫恆濕試驗後絕緣阻抗 : 最小容許值. 10M 歐姆
		經恆溫恆濕試驗後測耐電壓 : (After the test) Withstanding Voltage: 250V A/C for 1 minute



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Item(項目)	Test Condition(測試條件)	Requirement(規格)
8.2 Thermal Shock 冷熱衝擊	<p>A mated connector shall be subjected to a thermal shock test of the following conditions. After the test, the contact resistance, the insulation resistance and the dielectric withstanding voltage shall be measured.</p> <p>以組合狀態下連接器作為試驗樣品，依照隨附如下規格要求，進行冷熱衝擊試驗，並於試驗過後量測其接觸阻抗、絕緣阻抗、以及耐電壓測試。</p> <p>(EIA/ECA 364-32D Conditions I. Method A)</p> <p>One Cycle Consists Of:</p> <p>-55 +0/-3°C for 30 minutes. → Room Temp.5 minutes</p> <p>85+3/-0°C for 30 minutes. → Room Temp.5 minutes</p> <p>Total Cycles: 5 Cycles.</p> <p>以-55+0/-3°C溫度持續 30 分鐘，經室溫 5 分鐘，而後再以 85+3/-0°C溫度持續 30 分鐘，再經室溫 5 分鐘，構成一次冷熱循環，總計循環次數 5 次。</p>	<p>Same as paragraph 8.1</p> <p>同 8.1 章節</p>
8.3 Thermal Aging 高溫老化試驗	<p>A mated connector shall be placed in a heat oven of the following conditions. After the test, contact resistance shall be measured. 以組合狀態下連接器放置於加熱烤箱當中，依照隨附如下規格要求，進行高溫老化試驗，並於試驗過後量測其接觸阻抗。</p> <p>(EIA 364-17B Conditions III. Method A)</p> <p>Temperature(溫度) : 85±2°C.</p> <p>Period(週期): 96 hours continuously . (持續 96 小時)</p>	<p>Initial Contact Resistance on Crimped portion :</p> <p>10 milliohms Max.</p> <p>電線與物壓端子之間接觸阻抗最初容許值: 10m 歐姆</p> <p>(After the test)</p> <p>Contact Resistance on Crimped portion :</p> <p>20 milliohms Max.</p> <p>經高溫老化試驗後電線與物壓端子之間接觸阻抗: 最大容許值. 20m 歐姆</p>



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Item(項目)	Test Condition(測試條件)	Requirement(規格)
8.4 Salt Spray 鹽水噴霧	A mated connector shall be subjected to a Salt Spray test of the following conditions. After the test , the specimen shall be washed with running water and dried naturally before the measurement of contact resistance. 以組合狀態下連接器作為試驗樣品, 依照隨附如下規格要求, 進行鹽水噴霧試驗 , 試驗過後將樣品用清水沖洗並經過自然風乾, 而後量測其接觸阻抗 (EIA 364-26B Conditions B) Density(鹽水密度): 5 % in weight. Temperature(溫度): 35±2°C. Period(週期): Terminal or contact (Stamping after tin plated for 8 hours) ; Terminal or contact (Stamping before tin plated for 48 hours) 端子或導體(先電鍍後沖壓 8 小時) ; 端子或導體 (先沖壓後電鍍 48 小時)	Initial Contact Resistance on Crimped portion : 10 milliohms Max. 電線與柳壓端子之間接觸阻抗最大容許值: 10m 歐姆 (After the test) Contact Resistance on Crimped portion : 20 milliohms Max. 經高溫老化試驗後電線與包覆端子之間接觸阻抗: 最大容許值. 20m 歐姆
8.5 Solder Ability 焊錫性	Fluxed soldering section of header shall be dipped in solder of the following conditions. 將連接器 pin 針基板嵌入端, 接觸熱溶狀錫料, 依照隨附如下規格要求, 進行焊錫性試驗 (EIA 364-52B) Solder Temperature (焊錫溫度) : 245 ± 5°C. Immersion Period (沉浸週期) : 3±0.5 Seconds (操作方式) : 零件焊錫位置, 距離柳線端子焊錫端 1.5mm Method : 1.5mm from crimp terminal solder tail.	Solder entirely (Tin Plated : 95% / Gold Plated : 75%) of immersed area must show no voids or pinholes. 焊料覆蓋面積必須達到 (鍍錫 95% / 鍍金 75%)
8.6 Resistance To Soldering Heat 焊錫耐熱性	By Wave Soldering(波峰焊適用溫度範圍) : Refer to Temperature Profile 請參考 8.6.1 溫度曲線圖 (EIA-364-71B) by soldering iron 手工烙鐵焊錫適用溫度範圍 : 350 ± 5°C 3±0.5 Seconds (EIA/ECA 364-56C Procedure 3. Conditions A) (操作方式) : 零件焊錫位置, 距離柳線端子焊錫端 1.5mm Method : 1.5mm from crimp terminal solder tail.	No deformation or damage. 不可有變形或損壞

Notes : Flowing Mixed Gas (EIA 364-65A) shall be conduct by Customer request 混合流動氣體測試依照客戶需求



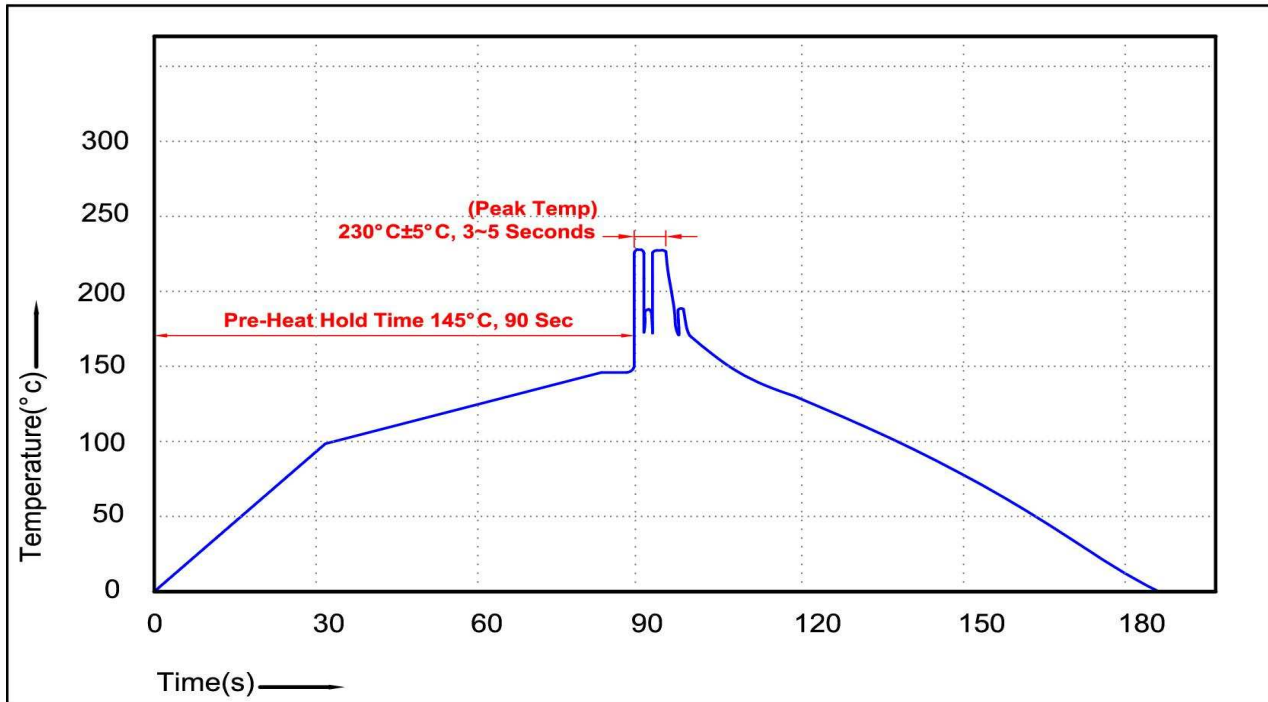
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8.6.1 Temperature Profile(溫度曲線圖) / Wave Peak Soldering In- General Process 波峰焊一般制程



9.0 Remark(備註) : Any change or revision for the product specification will not be announced in advance.

Please contact our sales representative for the latest information.

有關規格書內容經變更或改版，如未能夠及時發佈與通知，煩請連絡我司業務人員以提供產品最新資訊

Reviewed: J.M.Chang Approved: Peter Chang Verified: Indiana Huang