



Type Document	Product Specification	Revised /Edition	E
Date Issued	2009/10/21	Data Revised	2015/02/24
Subject: JS-1179FN1-XX JS-1179FN1-XXN JS-1179F-XX JS-1179F-XXN IC Socket(7.62x2.54mm Type) & (15.24x2.54mm Type)			Issued By: Engineering Dept.

*This specification is referred to the
 IC Socket(7.62x2.54mm Type) & (15.24x2.54mm Type)*
 本規格書內容係提供電子 IC 插座 2.54 mm 系列產品相關參考，

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- 1.0 Product Name/Part Number & Drawing Number.
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REV. (版次)	Revision Record (改版變更原因)	Date(日期)	ECN No
B	導體 Pin 針與膠座之間脫拔力，原規格 per Contact0.4kgf/Min.修改為 0.25~0.40kgf/Min.	2011/05/13	EC2011-05-022
C	1.刪除硫化氫 2.修正(EIA-364) 參考規範 3. 增列額定電壓	2012/04/05	EC2012-04-002
D	1 增訂Wave Peak Soldering In- Process Temperature Profile 2.修訂Solder Ability 附註Tin Plated : 95% / Gold Plated : 75% 3.修訂 Salt Spray Period(週期) : Contact gold plated 48 hours ; Contact Tin plated 8 hours	2013/12/05	EC2013/12/005
E	1.修訂Wave Peak Soldering In- Process Temperature Profile 2增訂8.5項Cold(Low Temperature)耐寒試驗，EIA-364-59A 3增訂3.4項Storage of Package以及 3.5項Floor Life	2015/02/24	EC2015-02-024



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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(產品型號)	Drawing Number(圖面型號)
7.62 X 2.54mm IC Socket	With Middle Bar 有補強肋條 Narrow Base Type 窄型膠座	JS-1179FN1-XXX	
	Without Middle Bar 無補強肋條 Narrow Base Type 窄型膠座	JS-1179FN1-XXN	
15.24 X 2.54mm IC Socket	With Middle Bar 有補強肋條 Wide Base Type 寬型膠座	JS-1179F-XXX	
	Without Middle Bar 無補強肋條 Wide Base Type 寬型膠座	JS-1179F-XXN	

Note: (XX) The number of the circuits.

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)
JS-1179FN1-XX & JS-1179FN1-XXN	Contacts (導體)	Phosphor Bronze (厚度 T=0.15)	Tin-Plated
	Base (膠座)	PBT	UL 94V-0
JS-1179F-XX & JS-1179F-XXN	Contacts (導體)	Phosphor Bronze (厚度 T=0.15)	Tin-Plated
	Base (膠座)	PBT	UL 94V-0



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3.0 Characteristic (產品特性):

Item(項目)		Standard(標準規範)	
3.1	額定電流 Rated Current	1 A AC	
3.2	額定電壓 Rated Voltage	250 V AC (r.m.s)	
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.: -40°C~+105°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	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	1 Year
3.5	Floor Life 拆封後使用期限	3 Months	

Note: 適用電路板厚度 Applicable Printed Circuit Board Thickness: 0.8~1.6 mm

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			
JS-1179FN1-XX 7.62 X 2.54mm IC Socket (With Middle Bar ; Narrow Base Type)		JS-1179F-XX 15.24 X 2.54mm IC Socket (With Middle Bar ; Wide Base Type)	
JS-1179FN1-XXN 7.62 X 2.54mm IC Socket (Without Middle Bar ; Narrow Base Type)		JS-1179F-XXN 15.24 X 2.54mm IC Socket (Without Middle Bar ; Wide Base Type)	



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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 Insertion Force IC 與插座之間 嵌入力	Insertion with IC pin at the speed rate of 25.4 ± 3mm/minute. / IC Pin 針與插座之間，施以每一分鐘 25.4 ± 3 mm 速率之軸向嵌入力 (EIA/ECA 364-13D)	單一接觸點 最大容許值 Per Contact 0.3kgf/Max.
6.2 Withdrawal Force IC 與插座之間 拔出力	Withdrawal with IC pin at the speed rate of 25.4 ± 3mm/minute. / IC Pin 針與插座之間，施以每一分鐘 25.4 ± 3 mm 速率之軸向拔出力 (EIA/ECA 364-13D)	單一接觸點 最小容許值 Per Contact 0.03kgf/Min.
6.3 Contact Retention Force in Base 導體與膠座之間保持力	Axial pullout force on the contact in the base at the speed rate of 25.4 ± 3 mm per minute. 對於已經存在於膠座當中導體，施以每一分鐘 25.4 ± 3 mm 速率之軸向拔出力 (EIA/ECA 364-29C)	單一接觸點 最小容許值 Per Contact 0.25~0.4kgf/Min.

7.0 Electrical Performance(電氣性能) :

Item(項目)	Test Condition(測試條件)	Requirement(規格)
7.1 (Low –Signal Level) Contact Resistance (低階信號) 接觸阻抗	A maximum voltage of 20mV and a maximum current of 100mA are applied to the mate connector. IC Pin 針與插座 嵌合，於其兩端施以最大電壓 20mV 以及最大電流 100mA (EIA/ECA 364-23C)	Contact Resistance: 20 milliohms Max. 最大容許值. 20 毫歐姆



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Item(項目)	Test Condition(測試條件)	Requirement(規格)
7.2	Insulation Resistance 絕緣阻抗 Apply 500V D/C for 1 minute between adjacent contacts to measure the insulation resistance. 對相鄰兩接觸導體，於一分鐘時間內施予 500V D/C 電壓，並量測其間絕緣阻抗值 (EIA 364-21C)	Insulation Resistance: Initial 1000 Megohms Min 最初容許值. 1000 兆歐姆
7.3	Withstanding Voltage 耐電壓 Apply 1000V 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. IC Pin 針與插座嵌合，於其相鄰兩導體末端各施以電壓 1000V 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	Durability 耐久性 Connector shall be subject to 50 cycles of insertion and withdrawal. (Mate IC Pin) (EIA/ECA 364-09C) IC Pin針與插座之間，連續 50 次嵌入與拔出往返測試	(After the test) Contact resistance : 40 mΩ Max 經耐久性試驗後接觸阻抗 最大容許值 40 毫歐姆
8.2	Humidity 恆溫恆濕 A mated connector 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. (Mate IC Pin) (EIA 364-31B Conditions II . Method A) IC Pin 針與插座嵌合，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。 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: 40milliohms Max. 經恆溫恆濕試驗後接觸阻抗 最大容許值. 40 毫歐姆 (After the test) Insulation Resistance : 100Megohms Min. 經恆溫恆濕試驗後絕緣阻抗 最小容許值. 100 兆歐姆 經恆溫恆濕試驗後耐電壓 : (After the test) Withstanding Voltage: 1000V A/C for 1 minute



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Item(項目)	Test Condition(測試條件)	Requirement(規格)
8.3 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, leave the specimen at room temperature for 1~2 hours before the contact resistance, the insulation resistance and the dielectric withstanding voltage shall be measured. 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, 經試驗過後將樣品置於室溫 1~2 小時, 再量測其接觸阻抗、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°C+0/-3°C for 30 minutes. → Room Temp. 5 minutes 85°C+3/-0°C for 30 minutes. → Room Temp. 5 minutes</p> <p>Total Cycles: 5 Cycles. 以-55°C+0/-3°C溫度持續 30 分鐘, 經室溫 5 分鐘, 而後再以 85°C+3/-0°C溫度持續 30 分鐘, 再</p>	<p>Same as paragraph 8.2 同 8.2 章節</p>
8.4 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, leave the specimen at room temperature for 1~2 hours before the 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, 經試驗過後將樣品置於室溫 1~2 小時, 再量測其接觸阻抗。</p> <p>(EIA 364-17B Conditions 4. Method A)</p> <p>Temperature(溫度): 105±2°C.</p> <p>Period(週期): 96 hours continuously. (持續 96 小時)</p>	<p>Initial Contact Resistance : 20 milliohms Max. 接觸阻抗最初容許值 20 毫歐姆 (After the test)</p> <p>Contact Resistance : 40milliohms Max. . 經高溫老化試驗後接觸阻抗 最大容許值.40 毫歐姆</p>
8.5 Cold 耐寒試驗 (Low Temperature)	<p>A mated connector shall be placed in a cold chamber of the following conditions. After the test, leave the specimen at room temperature for 1~2 hours before the contact resistance shall be measured. 以組合狀態下連接器放置於低溫空間內, 依照隨附如下規格要求, 進行耐寒試驗, 經試驗過後將樣品置於室溫 1~2 小時, 再量測其接觸阻抗。</p> <p>(EIA 364-59A Procedure 3)</p> <p>Temperature(溫度): -40±3°C.</p> <p>Period(週期): 96 hours continuously. (持續 96 小時)</p>	<p>Initial Contact Resistance : 20 milliohms Max. 接觸阻抗最初容許值 20 毫歐姆 (After the test)</p> <p>Contact Resistance : 40 milliohms Max. . 經耐寒試驗後接觸阻抗 最大容許值. 40 毫歐姆</p>



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Item(項目)	Test Condition(測試條件)	Requirement(規格)
8.6	<p>Salt Spray 鹽水噴霧</p> <p>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)</p> <p>Density(鹽水密度): 5 % in weight. Temperature(溫度): 35±2°C. Period(週期): 8 hours</p>	<p>Initial Contact Resistance : 20 milliohms Max. 接觸阻抗最初容許值 20 毫歐姆</p> <p>(After the test) Contact Resistance: 40 milliohms Max. 經鹽水噴霧試驗後接觸阻抗最大容許值. 40 毫歐姆</p>
8.7	<p>Solder Ability 焊錫性</p> <p>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)</p> <p>Solder Temperature (焊錫溫度) : 245 ± 5°C. Immersion Period (沉浸週期) : 3 ±0.5 Seconds (操作方式) : 料件焊錫位置, 距離導體末端 1.5mm Method : 1.5mm from contact tip</p>	<p>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%), 而且不能產生氣孔或空隙</p>
8.8	<p>Resistance to Soldering Heat 焊錫耐熱性</p> <p>By Wave Soldering(波焊適用溫度範圍) : Refer to Temperature Profile 請參考 8.8.1 溫度曲線圖 (EIA-364-71B)</p> <p>by soldering iron 手工烙鐵焊錫適用溫度範圍 : (EIA/ECA 364-56C Procedure 3. Conditions A) 350 ± 5°C 3±0.5 Seconds. (操作方式) : 料件焊錫位置, 距離導體末端 1.5mm Method : 1.5mm from contact tip</p>	<p>No deformation or damage. 不可有變形或損壞</p>

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

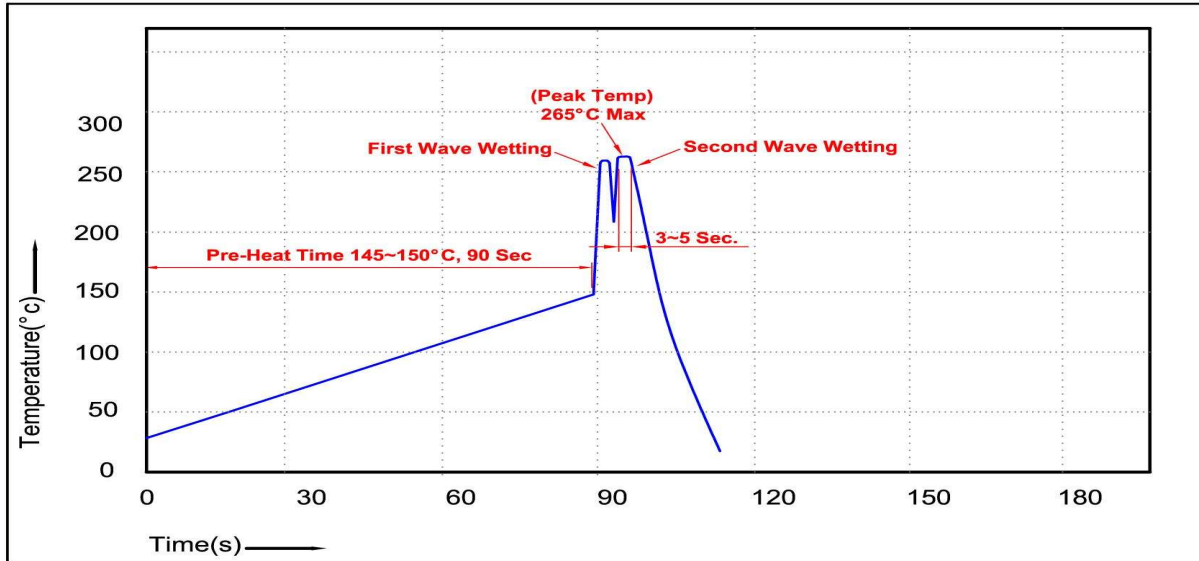
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8.8.1 Temperature Profile(溫度曲線圖) /

Wave Peak Soldering In- Lead-Free Process 波焊無鉛制程 :



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:** Tom Wang