



喬訊電子工業股份有限公司  
 CHYAO SHIUNN ELECTRONIC INDUSTRIAL LTD.  
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Type Document	Product Specification	Revised /Edition	F
Date Issued	2009/09/25	Data Revised	2015/02/12
Subject : JS-1155A JS-1155AS JS-1155AR JS-1155AR 1 Pitch 1.25mm DIP Series NON-ZIF FPC Connector			Issued By: Engineering Dept.

*This specification is referred to 1.25mm DIP series (NON-ZIF) FFC/FPC connector.*

本規格書內容係提供 1.25 mm DIP 系列產品相關參考，  
 其用途為軟性排線/軟板相接於電路板端(非零嵌入力)連接器

## -INDEX-

- 1.0 Product Name/Part Number & Drawing Number.(產品名稱 / 產品型號及圖面型號)
- 2.0 Construction/Dimensions/Material & Surface Finish.(材質以及表面鍍層)
- 3.0 Characteristic.(產品特性)
- 4.0 Specimen.(樣本圖示)
- 5.0 Applicable Standards.(適用規範)
- 6.0 Mechanical Performance.(機械性能)
- 7.0 Electrical Performance.(電氣性能)
- 8.0 Environmental Performance.(環境性能)
- 9.0 Remark (備註).

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	2010/02/24	EC2010-02-014
C	新增產品JS-1155AR1 Lower Contact 下接觸導體	2010/07/22	EC2010-07-004
D	增加漏電流小於0.5mA之偵測值	2011/05/23	EC2011-05-043
E	1.增列額定電壓 2.刪除硫化氫 3.修正(EIA-364) 參考規範 4.增訂3.4項Storage of Package 以及 3.5項Floor Life 5.增列Wave Peak Soldering In- Process Temperature Profile 6. Solder Ability 附註Tin Plated : 95% / Gold Plated : 75% 7 Contact Pin Retention Force 修訂為0.3Kg/f 8. Operating Temp 修訂為 -25℃~+85℃ ; 85% R.H. Max	2014/05/02	EC2014-05-002
F	1.修訂8.8.1 項 Temperature Profile / 2增訂8.6 項Cold耐寒試驗	2015/02/012	EC2015-02-012



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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)
NON-ZIF FPC/FFC	Straight ; <b>Standard Layout</b> (直立式 ; 標準電路板孔排序)	JS-1155AX-XX	
	Straight ; <b>Special Layout</b> (直立式 ; 特殊電路板孔排序)	JS-1155AS-XX	
	Right Angle (臥式)	<b>Upper Contact</b> 上接觸導體	JS-1155ARX-XX
		<b>Lower Contact</b> 下接觸導體	JS-1155AR1-XX

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)
NON-ZIF FPC/FFC (非零嵌入力) 軟板 / 軟排線連接器	Contact Pin (金屬導體)	Phosphor Bronze
	Base (膠座)	PBT
		Tin Plated
		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	
3.2 額定電壓 Rated Voltage	200V 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 FPC Cable 適用軟性排線	3.4.1	FPC Thickness : 0.30mm±0.05 mm 軟性排線厚度
	3.4.2	Circuit Poles : 4~30 電路極數
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	1 Year
3.6 Floor Life 拆封後使用期	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			
Straight		Right Angle	
JS-1155A		JS-1155AR	
JS-1155AS		JS-1155AR1	

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 FPC Cable Insertion & Withdrawal Force 軟排線與連接器之間， 嵌入力與拔出力	Mate applicable FPC cable and insert and withdraw at the Speed rate of 25.4 ± 3 mm per minute. 將合適的軟排線與連接器組合，以每一分鐘 25.4± 3 mm 速率，作嵌入與拔出往返測試 (EIA/ECA 364-13D)	單一接觸點 Per Contact 嵌入力最大容許值： Insertion Force : <b>0.15 kg/f Max</b> 拔出力最小容許值： Withdrawal Force : <b>0.04 kg/f Min</b>
6.2 Contact Pin Retention Force ( in Base ) 金屬導體與膠座之間保持力	Axial pullout force on the contact pin 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金屬導體，施以每一分鐘 25.4 ± 3 mm 速率之軸向拔出力(EIA 364-29C)	單一接觸點 Per Contact 最小容許值 <b>0.3kgf/Min.</b>

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 10mA are applied to the mate FPC connector. 將軟排線與連接器組合，於其兩端施以最大電壓 20mV 及最大電流 10mA (EIA/ECA 364-23C)	Contact Resistance: <b>30 milliohms Max.</b> 最大容許值. 30 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: <b>Initial 500 Megohms Min</b> 最初容許值. 500 兆歐姆
7.3 Withstanding Voltage 耐電壓	Apply <b>500V A/C (rms)</b> for 1 minute and the leakage current shall not exceed <b>0.5mA</b> to the adjacent terminal and ground of the mated FPC/FFC connector. 將軟排線嵌入連接器，於其相鄰兩導體末端各施以電壓 <b>500V A/C(實效值)</b> 時間 1 分鐘，且漏電流必須小於 <b>0.5mA(毫安培)</b> (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 Vibration 耐振動	A mated FPC connector shall be mounted on a printed Circuit board and subjected to a vibration test of the following conditions. During the test, test current continuity shall be checked. After the test, contact resistance shall be measured. 將軟排線嵌入連接器而後焊接於電路板作為試驗樣品,依照隨附如下規格要求,進行耐振動試驗，試驗過程中確認是否產生不連續電流(斷電)現象，並於試驗過後量測其接觸阻抗。 (EIA/ECA 364-28E-Condition 1) Frequency(頻率) : 10-55-10 Hz/minute. Amplitude (振幅) : 1.5 mm P-P Direction (方向) :1. Axis of up and down.上下軸向(Y 軸) 2. Axis of right the left. 左右軸向(X 軸) 3. Axis of front and back.前後軸向(Z 軸) Period(週期) : 2 hours for each direction. (每一個軸向持續 2 小時)	Initial Contact Resistance : 30 milliohms Max. 接觸阻抗最初容許值 30 毫歐姆 (After the test) Contact Resistance: <b>50 milliohms Max.</b> 經耐振動試驗後接觸阻抗 最大容許值 50 毫歐姆  No discontinuity current is longer than 1 microsecond. 電流中斷現象， 時間不可多於 1 微秒



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Item(項目)		Test Condition(測試條件)	Requirement(規格)
8.2	Humidity (Steady State) 恆溫恆濕	<p>A mated connector shall be placed in a humidity chamber 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.</p> <p>(EIA 364-31B Conditions III . Method A)</p> <p>以組合狀態下連接器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，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>Temperature(溫度) : 40±2°C.</p> <p>Relative Humidity(相對濕度) : 90%~95% (RH).</p> <p>Period(週期) : 96 hours continuously. (持續 96 小時)</p>	<p>(After the test)</p> <p>Contact Resistance:</p> <p><b>50 milliohms Max.</b></p> <p>經恆溫恆濕試驗後接觸阻抗最大容許值. 50 毫歐姆</p>
			<p>(After the test)</p> <p>Insulation Resistance :</p> <p><b>100 Megohms Min.</b></p> <p>經恆溫恆濕試驗後絕緣阻抗最小容許值. 100 兆歐姆</p>
			<p>經恆溫恆濕試驗後耐電壓</p> <p>(After the test)</p> <p>Withstanding Voltage:</p> <p><b>500V A/C for 1 minute</b></p>
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.</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，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><b>-55°C+0/-3°C for 30 minutes. → Room Temp. 5 minutes</b></p> <p><b>85°C+3/-0°C for 30 minutes. → Room Temp. 5 minutes</b></p> <p>Total Cycles: 5 Cycles.</p> <p>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 8.2</p> <p>同 8.2 章節</p>



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Item(項目)		Test Condition(測試條件)		Requirement(規格)
8.4	Heat 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, the insulation resistance and the dielectric withstanding voltage 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。(EIA 364-17B Conditions III . Method A)</p> <p>Temperature(溫度): 85±2℃.</p> <p>Period(週期): 96 hours continuously . (持續 96 小時)</p>		<p>Initial Contact Resistance : 30 milliohms Max. 接觸阻抗最初容許值 30 毫歐姆 (After the test)</p> <p>Contact Resistance : 50 milliohms Max. . 經高溫老化試驗後接觸阻抗 最大容許值.50 毫歐姆</p>
8.5	Salt Spray 鹽水噴霧	<p>A mated FPC 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.</p> <p>將軟排線嵌入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.</p> <p>Temperature(溫度): 35±2℃.</p> <p>Period(週期): 8 hours</p>		<p>Initial Contact Resistance : 30 milliohms Max. 接觸阻抗最初容許值 30 毫歐姆 (After the test)</p> <p>Contact Resistance: 50 milliohms Max. 經鹽水噴霧試驗後接觸阻抗 最大容許值. 50 毫歐姆</p>
8.6	Cold 耐寒試 (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。(EIA 364-59A Condition D ; Condition 4 )</p> <p>Temperature(溫度): -25±3℃.</p> <p>Period(週期): 96 hours continuously . (持續 96 小時)</p>		<p>Initial Contact Resistance : 30 milliohms Max. 接觸阻抗最初容許值 30 毫歐姆 (After the test)</p> <p>Contact Resistance : 50 milliohms Max. . 經耐寒試驗後接觸阻抗 最大容許值. 50 毫歐姆</p>





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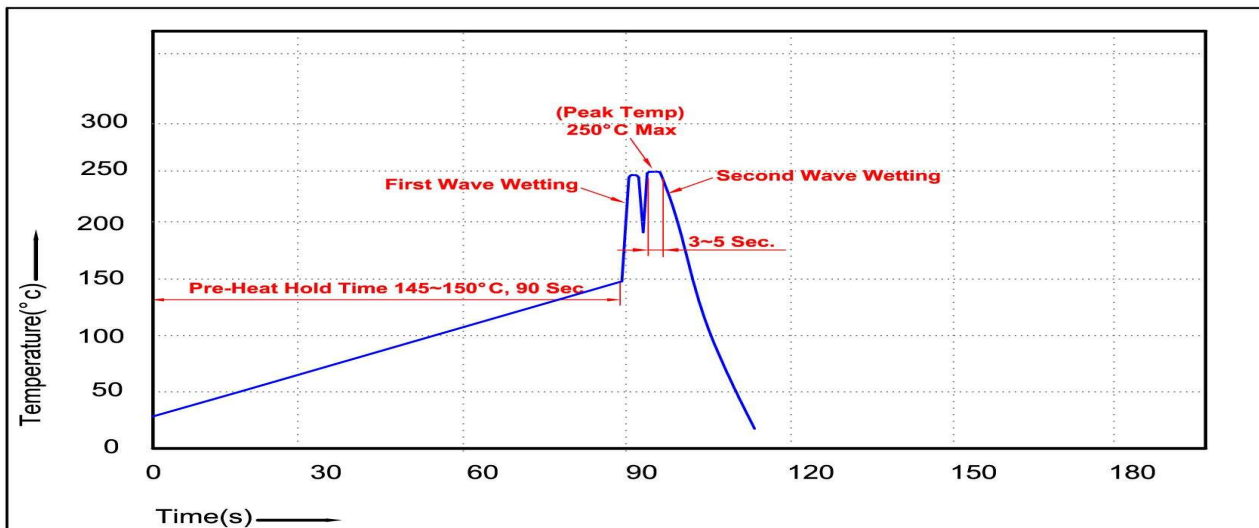
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<b>Pitch 1.25mm DIP Series NON-ZIF FPC Connector</b>			<b>Engineering Dept.</b>

Item(項目)	Test Condition(測試條件)	Requirement(規格)
8.7 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 Solder Temperature (焊錫溫度) : $245 \pm 5^\circ\text{C}$ . Immersion Period (沉浸週期) : $3 \pm 0.5$ Seconds (操作方式) : 零件焊錫位置，距離導體末端 1.5mm Method : 1.5mm from square pin tip (EIA 364-52B)	Solder entirely (Tin Plated : <b>95%</b> / Gold Plated : <b>75%</b> ) 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
8.8 Resistance to Soldering Heat 焊錫耐熱性	Resistance to soldering heat 焊錫耐熱範圍 : Refer to Temperature Profile 請參考 8.8.1.溫度曲線圖 By soldering iron 手工烙鐵焊錫適用溫度範圍 : $350 \pm 5^\circ\text{C}$ $3 \pm 0.5$ Seconds. (操作方式) : 零件焊錫位置，距離導體末端 1.5mm Method : 1.5mm from square pin tip (EIA/ECA 364-56C Procedure 3. Conditions A)	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

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



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