



喬訊電子工業股份有限公司  
CHYAO SHIUNN ELECTRONIC INDUSTRIAL LTD.  
7FL., NO.17, LANE 3, SEC.1 CHUNG CHENG EAST RD.,  
TAMSHUI, TAIPEI, TAIWAN, R.O.C.  
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Type Document	Product Specification	Revised / Edition	D
Date Issued	2004/12/31	Data Revised	2015/04/03
Subject: JS-1225-XX JS-1225-T JS-1235R-XX-HK Pitch 1.25mm Wire to Board SMT Series Connector			Issued By: Engineering Dept.

*This specification is referred to the 1.25mm SMT series wire to board connector.*

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**1.0 Product Name/Part Number & Drawing Number:**

Product Name		Part Number	Drawing Number
Terminal		JS-1225-T	JS-1225-T
Housing		JS-1225-XX	JS-1225- XX
Wafer	Right Angle	JS-1235R-XX	JS-1235R- XX
		JS-1235R-XX-HK	JS-1235R- XX-HK

Note: (xx) The number of the circuits.

**2.0 Construction/Dimensions/Material & Surface Finish:**

Construction and dimensions shall be in accordance with the referenced drawing.  
 Material and surface finish shall be specified as listing.

Part Name		Material	Surface Finish
Crimp Terminal		Phosphor Bronze	Tin-Plated Gold-Plated
Housing		Nylon 66	UL 94V-0
Wafer	Contact	Brass	Tin-Plated
	Solder Tab		
	Base	PA 9T LCP&PPA(Halogen Free)	UL 94V-0



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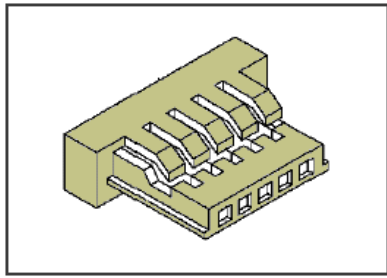
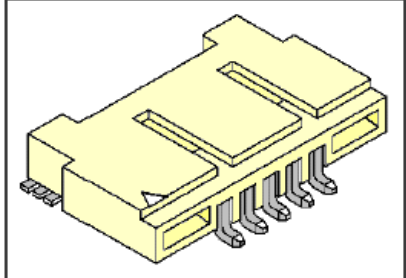


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### 3.0 Characteristic:

Item		Standard	
3.1	Rated Current	1A AC/DC (With AWG #28 is applied)	
3.2	Rated Voltage	100V AC/DC	
3.3	Ambient Temperature Range	Operating Temp.: <b>-25~+85</b> ; Including 30°C Terminal Temperature Rise at rated Current . Storage temp.: <b>-25~+85</b> ;	
3.4	Applicable Wire	3.4.1	Conductor Construction Size: AWG #28~#32
		3.4.2	Wire Insulation O.D.: 0.6mm~1.13mm
3.5	Applicable Printed Circuit Board (PCB)	3.5.1	SMT Layout: 1.25 ± 0.05 mm per Pitch
		3.5.2	SMT Layout: 2.0X0.7±0.05 mm for Pin Post
		3.5.3	SMT Layout: 2.6X2.0±0.05 mm for Ear Buckle
		3.5.4	SMT Layout: $\phi$ 1.1±0.05 mm for pillar

### 4.0 Specimen:

Part Name/ Part Number/ Picture or Photograph			
Housing JS-1225- XX		Wafer Right Angle JS-1235R-XX	
Crimp Terminal JS-1225-T		Wafer Right Angle JS-1235R-XX-HK	



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**5.0 Applicable Standards:**

MIL-STD-202 Methods by test of connectors for electronic equipment.  
 EIA 364 Testing method for electrical connectors.

**6.0 Mechanical Performance:**

Item		Test Condition	Requirement	
6.1	Insertion & Retention Force	Insert and withdraw with connectors at the speed rate of 25mm/minute. (EIA 364-13)	Refer to paragraph 9.1	
6.2	Crimp Tensile Strength	Pull with contact terminal at the speed rate of 25mm/minute.	AWG#28 size wire	1.3kgf/Min.
			AWG#30size wire	0.8kgf/Min.
			AWG#32 size wire	0.6kgf/Min.
6.3	Contact Retention Force	Withdraw with contact terminal at the speed rate of 25mm/minute.	0.5kgf/Min.	
6.4	Post Retention Force	Use a tension gauge to press the post at the speed rate of 25mm/minute. (EIA 364-29C)	0.5kgf/Min.	



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#### 7.0 Electrical Performance:

Item	Test Condition	Requirement
7.1	Contact Resistance A maximum voltage of 20mV and a maximum current of 10mA are applied to the Mate connectors. (EIA 364-23)	Contact Resistance: 20 milliohms Max.
7.2	Current Continuity Each circuit of the connector shall be connected in series. Continuity meter shall inspect current discontinuity.	No discontinuity current is longer than 1 microsecond.
7.3	Insulation Resistance Apply 500V D/C to any two adjacent contacts to measure the insulation resistance. (EIA 364-21)	Insulation Resistance: Initial 500megohms Min.
7.4	Withstanding Voltage Apply 500V 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. (EIA 364-20)	No breakdown or flashover.



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### 8.0 Environmental Performance:

Item	Test Condition	Requirement
8.1	Vibration  Frequency: 10~55~10 Hz/minute. Amplitude: 1.52 mm. Direction: 1. Axis of up and down. 2. Axis of right the left. 3. Axis of front and back. Period: 2 hours for each direction. (EIA 364-28A-23)	<b>Contact Resistance:</b> 40 milliohms Max. after the test.
		No discontinuity current is longer than 1 microsecond.
8.2	Humidity Steady State  Temperature: 40±2°C. Humidity: 90%~95% (RH). Period: 96 hours continuously. (EIA 364-31)	<b>Contact Resistance:</b> 40 milliohms Max. after the test.
		Insulation Resistance: 100 megohms Min. after the test.
		<b>Withstanding Voltage:</b> No breakdown or flashover. after the test.
8.3	Heat Aging  Temperature: 85±2°C. Period: 96 hours continuously. (EIA 364-17)	<b>Contact Resistance:</b> 40 milliohms Max. after the test.



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Item	Test Condition	Requirement
8.4 Thermal Shock	One Cycle Consists Of: <b>-55 +0/-3°C for 30 minutes. → Room Temp.5 minutes</b> <b>85+3/-0°C for 30 minutes. → Room Temp.5 minutes</b> Total Cycles: 25 Cycles. (EIA 364-32)	Same as paragraph 8.2
8.5 Salt Spray	Temperature: 35±2°C. Density: 5 % in weight. Period: <b>Terminal or contact (Stamping after tin plated for 8 hours) ;</b> Terminal or contact (Stamping before tin plated for 24 hours)	<b>Contact Resistance: 40 milliohms Max.</b> after the test.
8.7 Solder Ability	Solder Temperature: 245 ± 5°C. Immersion Period: 3±0.5 Seconds Method : 1.5mm From Square Pin Tip. (EIA 364-52)	Solder entirely 95% of immersed area must show no voids or pinholes.



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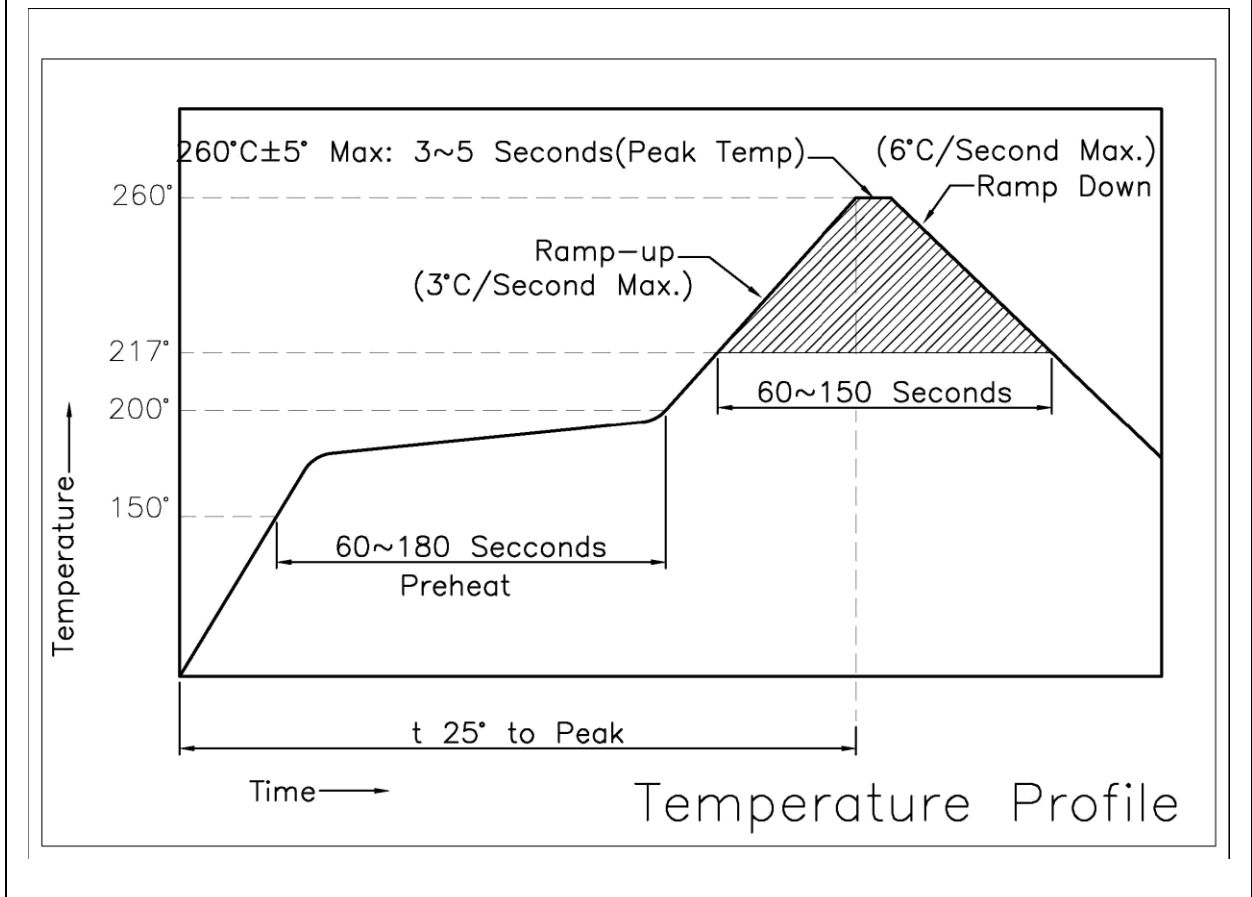


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Item	Test Condition	Requirement
8.8 Resistance To Soldering Heat	<p>By reflow soldering: Refer to Temperature Profile 8.8.1</p> <p>By soldering iron: 350 ± 5°C 3±0.5 Seconds. Method : 0.5mm From Terminal Tip and Solder Tab Tip</p>	Not deformation or damage.

**8.8.1 Temperature Profile:**







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9.0 Insertion Force (I.F.) & Retention Force (R.F.)

9.1 Requirement:

No. Of Circuits	AT INITIAL		AT 50TH	No. Of Circuits	AT INITIAL		AT 50TH
	I.F. (MAX)	R.F. (MIN)	R.F. (MIN)		I.F. (MAX)	R.F. (MIN)	R.F. (MIN)
				11	8.80	1.10	0.88
02	1.60	0.20	0.16	12	9.60	1.20	0.96
03	2.40	0.30	0.24	13	10.40	1.30	1.04
04	3.20	0.40	0.32	14	11.20	1.40	1.12
05	4.00	0.50	0.40	15	12.00	1.50	1.20
06	4.80	0.60	0.48	16	12.80	1.60	1.28
07	5.60	0.70	0.56	17	13.60	1.70	1.36
08	6.40	0.80	0.64	18	14.40	1.80	1.44
09	7.20	0.90	0.72	19	15.20	1.90	1.52
10	8.00	1.00	0.80	20	16.00	2.00	1.60

(Kg/f)

**10.0 Caution :** Parts are made of hydrophilic Polyamide 9T and apt to absorb moisture. Once the vacuum-packing unpacked, please keep parts in the environment of **temperature < 30°C/ humidity < 60% RH**, and send to re-flowing **within 72 hours** to prevent parts blistered or deformed during soldering.

**11.0 Remark:** Any change or revision for the product specification will not be announced in advance. Please contact our sales representative for the latest information.

Reviewed: Dicky Tang Approved: Liuzhiwen Verified: Sunquan