

CHYAO SHIUNN ELECTRONIC INDUSTRIAL LTD. 7FL., NO.17, LANE 3, SEC.1 CHUNG CHENG EAST RD., TAMSHUI, TAIPEI, TAIWAN, R.O.C. TEL: 886-2-2629-9955 (REP) FAX: 886-2-2626-6677 http://www.chyaoshiunn.com.tw E-mail:cs@chyaoshiunn.com.tw



**Type Document** Product Specification **Revised / Edition** Α 2018/06/22 **Data Revised** Date Issued Subject: JS-0535-XX JS-0536-XX **Issued By:** Pitch 0.50mm SMT Series Board to Board Connector Engineering Dept. This specification is referred to the 0.50mm SMT series board to board connector. -INDEX-1.0 Product Name/Part Number & Drawing Number. 2.0 Construction/Dimensions/Material & Surface Finish. 3.0 Characteristic. 4.0 Specimen. 5.0 **Applicable Standards** 6.0 **Mechanical Performance.** 7.0 **Electrical Performance.** 8.0 **Environmental Performance.** 9.0 **Insertion Force & Retention Force Requirement.** 10.0 Remark



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# 1.0 Product Name/Part Number & Drawing Number:

Product Name		Part Number	Drawing Number	
Wafer	PLUG	JS-0535	JS-0535-XX	
	RCPT	JS-0536	JS-0536-XX	

Note: (xx) The number of the circuits.

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

	Part Name	Material	Surface Finish	
<b>D</b> UUQ	Base	LCP	UL 94V-0	
PLUG	Contact	Phosphor Bronze	Tin Plated / Gold Plated	
PCDT	Base	LCP	UL 94V-0	
RCPT	Contact	Phosphor Bronze	Tin Plated / Gold Plated	



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# 4.0 Specimen:

Part Name/ Part Number/ Picture or Photograph							
PLUG JS-0535-XX		RCPT JS-0536-XX					

# 5.0 Applicable Standards:

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



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	Subject: JS-0535-XXJS-0536-XXPitch 0.50mm SMT Series Board to Board ConnectorE					
6.0 EI	nvironmental Pe Item		ondition	Requirement		
8.1	Vibration	Frequency: 10~55~10 Hz/minute. Amplitude: 1.5 mm P-P. 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)		Initial Contact Resistance : 40 milliohms Max. (After the test) Contact Resistance: 60 milliohms Max.		
				No discontinuity current is longer than 1 microsecond.		
	Humidity Steady State			(After the test) Contact Resistance: 60 milliohms Max.		
8.2		Temperature: 40±2℃. Humidity: 90%~95% (RH). Period: 96 hours continuously.	C. 6 (RH).	(After the test) Insulation Resistance: 1000 Megohms Min.		
		(EIA 364-31)	,	(After the test) Withstanding Voltage : No breakdown or flashover		
8.3	Thermal Shock	One Cycle Consists -55 +0/-3℃for 30 mi Temp.5 minutes 85+3/-0℃ for 30 mi Temp.5 minutes Total Cycles: 5 Cycl (EIA 364-32)	nutes. → Room nutes. → Room	Same as paragraph 8.2		



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ltem		Test Condition	Requirement	
8.4	Heat Aging	Temperature: 85±2℃. Period: 96 hours continuously. (EIA 364-17)	Contact Resistance: 60 milliohms Max. after the test.	
8.5	Salt Spray	Temperature: 35±2℃. Density: 5 % in weight. Period: Terminal or contact (Stamping after tin plated for 8 hours ) ; Terminal or contact (Stamping before tin plated for 24 hours)	(After the test) Contact Resistance: 60 milliohms Max	
8.6	Solder Ability	Solder Temperature: 245 ± 5℃. Immersion Period: 3±0.5 Seconds Method : 0.5mm From Terminal Tip and Solder Tab Tip (EIA 364-52)	Solder entirely 95% of immersed area must show no voids or pinholes.	

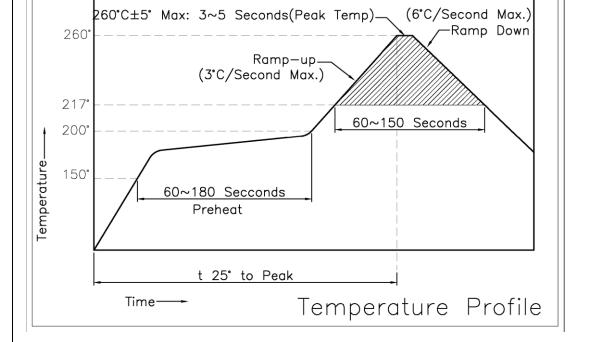


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Item	Test Co	ndition	Requirement			
	By reflow soldering: Refer to Temperature	Profile 8.7.1				





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

#### 9.1 Requirement:

No. Of	AT INITIAL		AT 30TH	No. Of	AT INITIAL		AT 30TH
Circuits	I.F. (MAX)	R.F. (MIN)	R.F. (MIN)	No. Of Circuits	I.F. (MAX)	R.F. (MIN)	R.F. (MIN)
30				100			
40				110			
50				120			
60							
70							
80							
90							

(Kg/f)

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