



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.  
TEL: 886-2-2629-9955 (REP) FAX: 886-2-2626-6677



<http://www.chyaoshiunn.com.tw> E-mail: [cs@chyaoshiunn.com.tw](mailto:cs@chyaoshiunn.com.tw)

Type Document	Product Specification	Revised / Edition	G
Date Issued	2008/07/28	Data Revised	2016/10/25
Subject: JS-0505-XX/NH JS-1005-XX/NH Pitch 0.50mm / 1.00mm SMT Series ZIF FPC/FFC Connector			Issued By: Engineering Dept.

*This specification is referred to Pitch 0.50mm/1.00mm*

*SMT series (ZIF) FPC/FFC 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 Remark



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.  
 TEL: 886-2-2629-9955 (REP) FAX: 886-2-2626-6677



<http://www.chyaoshiunn.com.tw> E-mail: [cs@chyaoshiunn.com.tw](mailto:cs@chyaoshiunn.com.tw)

Type Document	Product Specification	Revised / Edition	G
Date Issued	2008/07/28	Data Revised	2016/10/25
Subject: JS-0505-XX/NH JS-1005-XX/NH Pitch 0.50mm / 1.00mm SMT Series ZIF FPC/FFC Connector			Issued By: Engineering Dept.

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

Product Name		Part Number	Drawing Number
ZIF FPC/FFC Connector	Pitch 0.50mm	JS-0505-XX	JS-0505-XX
	Pitch 1.00mm	JS-1005-XX	JS-1005-XX

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

Part Name		Material	Surface Finish
ZIF FPC/FFC Connector	Solder Nail	Brass	Matte Sn
	Contacts	Phos. Bronze	Matte Sn / Gold Plated
	Cover	PA9T	UL 94V-0
	Base	LCP	UL 94V-0

### 3.0 Characteristic:

Item		Standard
3.1	Rated Current	0.5A AC/DC
3.2	Ambient Temperature Range	Operating Temp. : -25°C~+105°C Including 30°C Terminal Temperature Rise at rated Current. Storage Temp. : -25°C~+85°C
3.3	Applicable FPC/FFC Cable	3.3.1 FPC/FFC Thickness : 0.30mm±0.03 mm
		3.3.2 Circuit Poles : 9~61 (Pitch 0.50mm)
		Circuit Poles : 4~30 (Pitch 1.00mm)
3.4	Applicable Printed Circuit Board Layout	3.4.1 Per Pitch : 0.50/1.00 ± 0.05 mm per Pitch
		3.4.2 SMT Layout : 0.30/0.60x1.80 ±0.05 mm for Contact
		3.4.3 SMT Layout : 2.20x1.80 ±0.05 mm for Solder Nail

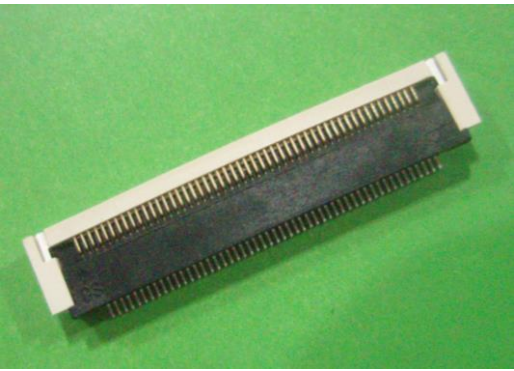



喬訊電子工業股份有限公司  
 CHYAO SHIUNN ELECTRONIC INDUSTRIAL LTD.  
 7FL., NO.17, LANE 3, SEC.1 CHUNG CHENG EAST RD.,  
 TAMSHUI, TAIPEI, TAIWAN, R.O.C.  
 TEL: 886-2-2629-9955 (REP) FAX: 886-2-2626-6677  
<http://www.chyaoshiunn.com.tw> E-mail: [cs@chyaoshiunn.com.tw](mailto:cs@chyaoshiunn.com.tw)



Type Document	Product Specification	Revised / Edition	G
Date Issued	2008/07/28	Data Revised	2016/10/25
Subject: JS-0505-XX/NH JS-1005-XX/NH Pitch 0.50mm / 1.00mm SMT Series ZIF FPC/FFC Connector			Issued By: Engineering Dept.

#### 4.0 Specimen:

Part Name		Part Number	Picture or Photograph
ZIF FPC/FFC Connector	Pitch 0.50mm	JS-0505-XX	
	Pitch 1.00mm	JS-1005-XX	

#### 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	FPC/FFC Cable Retention Force	Insert the actuator pull the FPC/FFC Cable at the speed rate of $25 \pm 6$ mm per minute. (EIA 364-13)	0.03kgf/PIN Min
6.2	Pin Retention Force (in Base)	Axial pullout force on the square pin in the base at the speed rate of $25 \pm 6$ mm per minute. (EIA 364-29C)	Per Contact 0.2kgf Min.



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.  
TEL: 886-2-2629-9955 (REP) FAX: 886-2-2626-6677



<http://www.chyaoshiunn.com.tw> E-mail: [cs@chyaoshiunn.com.tw](mailto:cs@chyaoshiunn.com.tw)

Type Document	Product Specification	Revised / Edition	G
Date Issued	2008/07/28	Data Revised	2016/10/25
Subject: JS-0505-XX/NH JS-1005-XX/NH Pitch 0.50mm / 1.00mm SMT Series ZIF FPC/FFC Connector			Issued By: Engineering Dept.

#### 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 FPC connectors. (EIA 364-23)	Contact Resistance: <b>20 milliohms Max.</b>
7.2	Current Continuity Each circuit of the connector shall be connected in series continuity meter shall detect current discontinuity longer than 1 microsecond during the vibration test.	No discontinuity current is longer than 1 microsecond.
7.3	Insulation Resistance Apply <b>500V D/C</b> to any two adjacent contacts to measure the insulation resistance. (EIA 364-21)	Insulation Resistance: <b>Initial 500 Megohms Min.</b>
7.4	Withstanding Voltage Apply <b>500V A/C</b> (rms) for 1 minute and the leakage current shall not exceed <b>0.5mA</b> to the adjacent terminal and ground of the Mate connectors. (EIA 364-20)	No breakdown or flashover.



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.  
 TEL: 886-2-2629-9955 (REP) FAX: 886-2-2626-6677



<http://www.chyaoshiunn.com.tw> E-mail: [cs@chyaoshiunn.com.tw](mailto:cs@chyaoshiunn.com.tw)

Type Document	Product Specification	Revised / Edition	G
Date Issued	2008/07/28	Data Revised	2016/10/25
Subject: JS-0505-XX/NH JS-1005-XX/NH Pitch 0.50mm / 1.00mm SMT Series ZIF FPC/FFC Connector			Issued By: Engineering Dept.

**8.0 Environmental Performance:**

Item	Test Condition	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 : 20 milliohms Max. (After the test) Contact Resistance: <b>40 milliohms Max.</b>  <b>No discontinuity current is longer than 1 microsecond.</b>
8.2 Humidity Steady State	Temperature: <b>40±2°C.</b> Humidity: 90%~95% (RH). Period: 96 hours continuously. (EIA 364-31)	(After the test) Contact Resistance: <b>40 milliohms Max.</b>  (After the test) Insulation Resistance: <b>500 Megohms Min.</b>  (After the test) Withstanding Voltage : No breakdown or flashover
8.3 Thermal Shock	One Cycle Consists Of: <b>-55 +0/-3°C for 30 minutes. → Room Temp.5 minutes</b> <b>+105+3/-0°C for 30 minutes. → Room Temp.5 minutes</b> Total Cycles: 25 Cycles. (EIA 364-32)	Same as paragraph 8.2



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.  
 TEL: 886-2-2629-9955 (REP) FAX: 886-2-2626-6677



<http://www.chyaoshiunn.com.tw> E-mail: [cs@chyaoshiunn.com.tw](mailto:cs@chyaoshiunn.com.tw)

Type Document	Product Specification	Revised / Edition	G
Date Issued	2008/07/28	Data Revised	2016/10/25
Subject: JS-0505-XX/NH JS-1005-XX/NH Pitch 0.50mm / 1.00mm SMT Series ZIF FPC/FFC Connector			Issued By: Engineering Dept.

Item		Test Condition	Requirement
8.4	Heat Aging	Temperature: 105±2°C. Period: 96 hours continuously. (EIA 364-17)	Contact Resistance: <b>40 milliohms Max.</b> after the test.
8.5	Salt Spray	Temperature: 35±2°C. Density: 5 % in weight. Period: <b>Terminal or contact (Stamping before tin plated for 24 hours)</b>	(After the test) Contact Resistance: <b>40 milliohms Max</b>
8.6	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.
8.7	Resistance To Soldering Heat	By reflow soldering: Refer to Temperature Profile 8.8.1	Not deformation or damage.
		By soldering iron: 350 ± 5°C 3±0.5 Seconds. Method : 0.5mm From Terminal Tip and Solder Tab Tip	



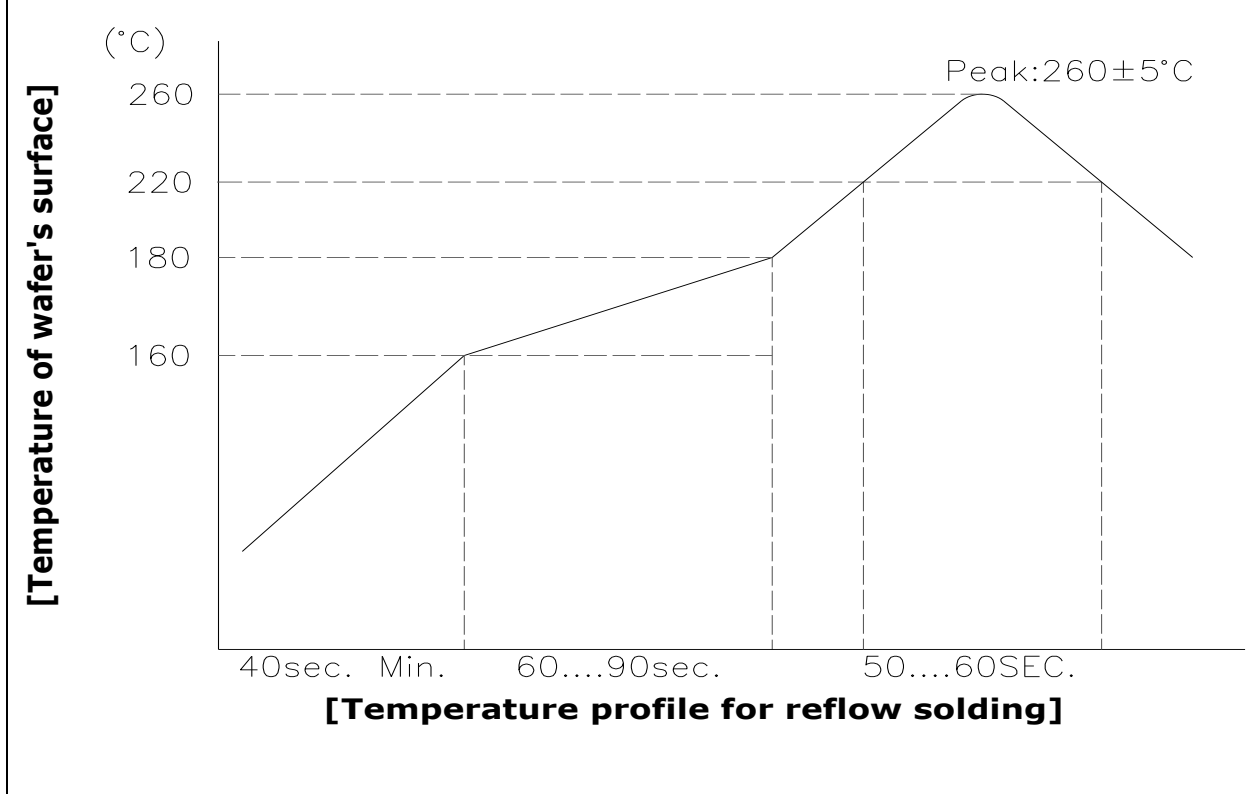
喬訊電子工業股份有限公司  
CHYAO SHIUNN ELECTRONIC INDUSTRIAL LTD.  
7FL., NO.17, LANE 3, SEC.1 CHUNG CHENG EAST RD.,  
TAMSHUI, TAIPEI, TAIWAN, R.O.C.  
TEL: 886-2-2629-9955 (REP) FAX: 886-2-2626-6677



<http://www.chyaoshiunn.com.tw> E-mail: [cs@chyaoshiunn.com.tw](mailto:cs@chyaoshiunn.com.tw)

Type Document	Product Specification	Revised / Edition	G
Date Issued	2008/07/28	Data Revised	2016/10/25
Subject: JS-0505-XX/NH JS-1005-XX/NH Pitch 0.50mm / 1.00mm SMT Series ZIF FPC/FFC Connector			Issued By: Engineering Dept.

### 8.7.1 Temperature Profile:



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