

FWF08001/FWF08002 Wafer Series

1. Scope

Wafer Connector FWF08001/FWF08002 Series

This specification covers the Wafer Connector FWF08001/FWF08002 Series

2. Connector Dimensions

Refer to the drawing.

3. Material

Refer to the drawing.

Housing:PA9T UL94V-0

Color: Natural

Contacts Terminal:Brass

Plating:Tin-Plated all/Gold Plated

4. Accommodated P.C.B Layout

Refer to the drawing.

5. Rating

Operating Voltage(Max.) 30V AC/DC

Current Rating(Max.) 0.2A DC/AC (AWG 36)

0.5A DC/AC (AWG 32)

Operating Temperature -25°C -- +85°C(Including terminal temperature rese)



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6. Performance

		Electrical Performance		
Contact Resistance	20mΩ Max	Mate connectors, Measure I	by dry circuit.20mV Ma	ax. 10mA
Insulation Resistance	100MΩ Min	Mate applicable connectors and apply 100V DC between adjacent terminal or ground		
Dielectric Strength	No Breakdown	Mate applicable connectors, apply 200V AC(rms) for 1 minute between adjacent terminal or ground		
Contact resistance on Crimped Portion	5mΩ Max	Crimp the applicable wire on to the terminal,measure by dry circuit,20mV MAX,10mA		
	N	Mechanical Performance		
Insert and withdrawal force	Refer to paragraph 7 Insert and withdraw connectors at the speed rate of 25±3mm/minute.			of 25 \pm 3mm/minute.
Terminal retention force	0.4kgf(Min)	Fix the crimped terminal, speed i	apply axial pull out for rate of 25±3mm/minut	
	Environ	mental Performance and oth	ners	
Repeated insertion/withdrawal	When mated up to 30 cycles repeatedly by the rate of 10 cycles per minute		Contact Resistance	40 mΩ Max
Temperature Rise	Mate applicable connectors and Measure the temperature rise of contact when the maximum AC rated current is passed		Temperature rise	30°C Max
		Mate connectors and subject to the following vibration conditions, for period of 2 hours in each of 3 mutually perpendicular		No Damage
Vibration	each of 3 mutua			40mΩ Max
Vibration	axes,passing DC 1mA during the test . Amplitude:1.5mm P-P Frequency:10-55-10Hz in 1 munute Duration:2 hours in each of X.Y.Z axe		Discontinuity	1µsec Max
				. <u>.</u>
Shock	Mate applicable connectors and subject to the following shock conditions.3 times of shocks shall be applied for each 6 directions along 3 mutually perpendicular axes .passing DC 1mA current during the test. (Total of 18 shocks) Peak value:490m/S ² (50G)		Appearance	No Damage
			Contact Resistance	40mΩ Max
			Discontinuity	1µsec Max

STANDARD SPECIFICATION

RVA.

WIRE TO BOARD CONNECTOR PITCHO.8MM DIP

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Heat Resistance	Mate applicable connectors and expose to 85 \pm 2°C for 96 hours.upon completion of the exposure period the test specimens shall be conditioned at ambient room conditions for 1	Appearance	No Damage
	to 2 hours ,After which the specified measurements shall be performed.	Contact Resistance	40mΩ Max
Cold Resistance	Mate applicable connectors and expose to - $40\pm2^{\circ}\text{C}$ for 96 hours ,upon completion of the exposure period,the test specimens shall be comditioned at ambient room conditions for 1 to 2 hours ,after which the specified measurements shall be performed.	Appearance	No Damage
		Contact Resistance	40mΩ Max
Humidity	Mate applicable connectors and expose to 60 ±2°C,relative humidity 90 to 95% for 96 hours,upon completion of the exposure period ,the test specimens shall be comditioned at ambient room conditions for 1 to 2 hours ,after which the specified measurements sh	Appearance	No Damage
		Contact Resistance	40mΩ Max
		Dielectric strength	No Breakdown
		Insulation Resistance	500MΩ Min
Temperature Cycling	Mate applicable connectors and subjectto the following conditions for 5 cycles.upon completion of the exposure period ,the test specimens shall be comditioned at ambient room conditions for 1 to 2 hours ,after which the specified measurements shall be per	Appearance	No Damage
		Contact Resistance	40mΩ Max
Salt Spray	Mated connector shall be placed in a salt spray chamber on the following conditions . Salt solution density:5±1% Temperature:35±2°C Duration:22 Hours	Appearance	No Damage
		Contact Resistance	40mΩ Max

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SO ₂ Gas	Mate applicable connectors and exposethem to the following SO ₂ gas atmosphere Temperature 40±2°C	Appearance	No Damage
	Gas Density 50±5 ppm Duration 24 hours	Contact Resistance	40mΩ Max
NH ₃ Gas	40 minutes exposure to NH3 gas evaporating from 28% Ammonia solution.	Appearance	No Damage
		Contact Resistance	40mΩ Max
Solderability	Tip of solder tails and fitting nails into the molten solder (held at $245\pm5^{\circ}$ C) up to 0.1mm form the bottom of the housing for 3 ±0.5 seconds.	Solder Wetting	95% ofimmersed area must show no voids ,pin holes
Resistance to Soldering Heat	When reflowing Refer to paragraph 8. Soldering inon method 0.2mm from terminal tip and fitting nail tip. Soldering time :5 seconds Max Solder temperature :370-400°C	Appearance	No Damage

7. Insertion/Withdrawal Force

No of CKT	Unit	Insertion Force (MAX.)	Extraction Force(MIN.)
2	kgf	0.51	0.10
3	kgf	0.77	0.15
4	kgf	1.02	0.20
5	kgf	1.28	0.26
6	kgf	1.53	0.31
7	kgf	1.79	0.36
8	kgf	2.04	0.41
9	kgf	2.30	0.46
10	kgf	2.55	0.51
11	kgf	2.81	0.56
12	kgf	3.06	0.61
13	kgf	3.32	0.66
14	kgf	3.57	0.71
15	kgf	3.83	0.77