CJTconn 長江連接器有限公司 CHANGJIANG CONNECTORS CO.,LTD.

PRODUCT SPECIFICATION

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PRODUCT SPECIFICATION

PRODUCT SERIES NAME：B1271 SERIES

1.SCOPE:

This specification covers the requirements for product performance of 1.27mm pitch board to board connector series.

2.PART NAME & PART NUMBERS

Part name	Part number
Wafer	B1271WV-S-F-2xXP
	B1271HWV-S-F-2xXP

3. CONSTRUCTION. DIMENSIONS . MATERIAL & SURFACE FINISH

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

Part name		Material	Surface finish
Wafer	Post	Phophor Bronze	Tin over Nickel
	Body	LCP	UL94V-0

4. PERFORMANCE

4.1 ELECTRICAL PERFORMANCE

Test Description		Procedure	Requirement
4-1-1	Contact Resistance	Mate connectors, measure by dry circuit, 100mV max. 20mA. (Based upon EIA 364-23)	25mΩ max.
4-1-2	Insulation Resistance	Mate connectors, apply 500V DC for 1 minute between adjacent terminal or ground. (Based upon JISEIA364-21or IEC60512-3-1)	10000MΩ min.
4-1-3	Dielectric Withstanding Voltage	Mate connectors, apply 500V AC (rms) for 1 minute between adjacent terminal or ground. (Based upon JIS EIA 364-20 or IEC60512-4-1or MIL-STD-1344,)	No Breakdown

4.2 MECHANICAL PERFORMANCE

Test Description		Procedure		Requirement
4-2-1	Insertion & Withdrawal Force	Insert and withdraw connectors at the speed rate of 25 ± 3mm/minute.		Mating force Max: 50gf (per pin) UnmatingforceMin: 10gf (per pin)
4-2-2	Pin Retention Force	Apply axial push force at the speed rate of 25 ± 3mm/minute.		0.50kgf min.
4-2-3	Durability	Mate contact at 25.4mm/minute for 500 cycles. (Based upon JIS EIA 364-09 or IEC60512-9-1or EIA 364-09 or IEC60512-9-1or	Contact Resistance	25mΩ max.
4-2-4	Vibration	Frequency : 50 ~ 2000 Hz PSD value : 5.35 Grms minimum Duration : 15 minutes/axis X.Y.Z. axes (Based upon EIA 364-28F or IEC60512-6-4 or IEC60068-2-6Fc)	Appearance	No Damage
			Contact Resistance	25mΩ max.
			Discontinuity	1μsec. max.
4-2-5	Physical Shock	Wave form : Half-sine Peak acceleration : 100 G's Duration : 6 ms 3 shocks in each direction applied along three mutually perpendicular planes, total 18 shocks. (Based upon EIA 364-27C or	Appearance	No Damage
			Contact Resistance	25mΩ max.
			Discontinuity	1μsec. max.

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4.3 ENVIRONMENTAL PERFORMANCE AND OTHERS

Test Description		Procedure		Requirement
4-3-1	Thermal Shock	Temperature : -55~ 125°C Cycles : 5 Exposure time at temperature extremes : 25 minutes (Based upon JIS EIA 364-32 or IEC60512-11-4)	Appearance	No Damage
			Contact Resistance	25mΩ max.
4-3-2	Temperature Life	Temperature : 125±2°C, 96 hours (Based upon EIA 364-17 or IEC60512-9-2)	Appearance	No Damage
			Contact Resistance	25mΩ max.
4-3-3	Humidity	Temperature: 25 ~ 65°C Relative Humidity: 90 ~ 95% Duration: 96 hours (Based upon JIS EIA 364-31 or IEC60512-11-3)	Appearance	No Damage
			Contact Resistance	25mΩ max.
			Insulation Resistance	10000MΩ min.
			Dielectric Withstandin	Must meet 4-1-3
4-3-4	Salt Spray	24 hours exposure to a salt spray from the 5 % solution at 35 ± 2°C. (Based upon EIA 364-26 or IEC60512-11-6)	Appearance	No Damage
			Contact Resistance	25mΩ max.
4-3-5	Solderability	Soldering Time: 3~5 sec. Solder Temperature: 240 ± 5°C	Solder Wetting	95% of immersed area must show no voids, pin holes
4-3-6	Resistance to Soldering Heat	<u>High temperature resistant materials</u> Soldering Time:3~5 sec. Solder Temperature: 260 ± 5°C	Appearance	No Damage