

ENGINEERING DEPT		PRODUCT SPECIFICATION For CI17 1.5mm wire to board Connector	SPEC.NO.: SPCI097A
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1. SCOPE:

This specification contains the test requirement of subject connectors when tested under the condition and procedure with terminals crimped on the specified maximum size wire

2. APPLICABLE STANDARDS:

MIL - STD - 202	Methods for test of connectors for electronic equipment
MIL - STD - 1344	Test methods for electrical connectors
J-STD-020	Resistance to soldering Temperature for through hole Mounted Devices
SS-00254	Test methods for electronic components ,LEAD-FREE soldering Part design standards

3. APPLICABLE SERIES NO.: CI1703M1VR0-NH (Halogen-Free)

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

See attached drawings

6. ACCOMMODATED P.C.BOARD

6.1 P.C. Board Layout: See attached drawings



REVIEWED : David APPROVED : Eisley VERIFIED : Steven .

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7. ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
7.1	Rated current and voltage		1A (AWG#28), 250V AC/DC
7.2	Contact resistance	Dry circuit of DC 20mV max. , 100mA max., Wire resistance shall be removed from the measured value.	Less than 20 mΩ
7.3	Dielectric strength	When applied AC 1500 V 1 minute between adjacent terminal	No Breakdown Current leakage<5mA
7.4	Insulation resistance	When applied DC 500 V between adjacent terminal or ground	More than 1000 MΩ

8. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
8.1	Pin retention force	Push Pin from insulator base at speed 25± 3 mm per minute	More than 0.7 kgf

9. ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
9.1	Temperature rise	Then carried the rated current	30°C Max.
9.2	Vibration	1.5 mm 10-55-10 HZ/minute each 2 hours for X, Y and Z directions	Appearance: No damage Discontinuity: 1 micro second max.
9.3	Heat aging	105± 2°C, 96 hours	No damage
9.4	Humidity	60± 2°C, 90-95% RH, 96 hours measurement must be taken within 30 min. after tested	Appearance: No damage Contact resistance: 40 mΩ Max. Insulation resistance: 100MΩ Min. Dielectric strength: To pass para 7-3
9.5	Temperature cycling	One cycle consists of : (1) -40 ⁺⁰ / ₋₃ °C , 30 min. (2) Room temp. 10-15 min. (3) 105 ⁺³ / ₋₀ °C , 30 min. (4) Room temp. 10-15 min. Total cycle: 5 cycle	Appearance: No damage Contact resistance: 20 mΩ Max.

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	ITEM	TEST CONDITION	REQUIREMENT
9.6	Salt spray	Solution: 5± 1% Temperature: 35 ⁺¹ ₋₂ °C Spray time: 48± 4 hours Measurement must be taken after water rinse	Appearance: No damage Contact resistance: 40 mΩ Max.
9.7	Solder ability	Soldering time: 3 ± 0.5 second Soldering pot: 245 ± 5°C	Minimum: 90% of immersed area
9.8	Resistance to soldering heat	Refer Reflow temperature profile(11.1)	No damage

10. AMBIENT TEMPERATURE RANGE: -25 to + 130°C

11. Recommended IR Reflow Temperature Profile:

11.1 Using Lead-Free Solder Paste

