

ENGINEERING	PRODUCT SPECIFICATION	SPEC.NO.: SPCH063A
DEPT.	For 2.54 mm (.100") Pin Header of System CH88	PAGE: 1/2

1. SCOPE:

This specification contains the test requirement of subject pin headers when tested under the condition and below standards base on CviLux test procedure

2. APPLICABLE STANDARDS:

MIL - STD - 202	Methods for test of connectors for electronic equipment
MIL - STD - 1344	Test methods for electrical connectors
JIS - C - 5402	Methods for test of connectors for electronic equipment
UL 94	Test for flammability of plastic materials for parts in devices and appliance
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.: **CH88402D1A0**

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

See attached drawings

6. ACCOMMODATED P.C.BOARD

(P.C. Board on which the Pin Header are installed), 1.6 mm (.063")



REVIEWED : Eisley APPROVED : Eisley VERIFIED : Sandy

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7. ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
7.1	Rated current and voltage		3A 250V AC (r.m.s.)
7.2	Contact resistance	Dry circuit of DC 20 mV max. , 100 mA max.	Less than 20 mΩ
7.3	Dielectric strength	When applied AC 1000 V 1minute between adjacent terminal	No change
7.4	Insulation resistance	When applied DC 500 V between adjacent terminal or ground	More than 5000 MΩ

8. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
8.1	Pin retention force	Apply axial pull out force at 25± 3mm/min on the assembly in the housing	More than 1.0 Kgf
8.2	Repeated Insertion / Extraction	When mated up to 100 cycles repeatedly by the rate of 400-600 cycle per hour	Contact resistance Δ 20 mΩ change

9. ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
9.1	Cold Resistance	-40± 3°C, 96 hours	Appearance: No damage Contact resistance Δ 20 mΩ change
9.2	Heat Resistance	105± 3°C, 96 hours	Appearance: No damage Contact resistance Δ 20 mΩ change
9.3	Temperature cycling	5 cycles (1) -40 °C , 30 min. (2) Room temp. 10-15 min. (3) 105 °C , 30 min. (4) Room temp. 10-15 min.	Appearance: No damage Contact resistance Δ 20 mΩ change
9.4	Salt spray	Temperature: 35± 2°C Solution: 5± 1% Spray time: 6± 1 hours Measurement must be taken after water rinse	Appearance: No damage Contact resistance Δ 20 mΩ change
9.5	Solder ability	Soldering time: 3 ± 0.5 second Soldering pot: 245 ± 5°C	Minimum: 95% of immersed area
9.6	Resistance to soldering heat	Soldering time: 5 ± 0.5 second Soldering pot: 260 ± 5°C	No damage

10. OPERATING TEMPERATURE : -40 to + 105°C