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| ENGINEERING DEPT. | | PRODUCT SPECIFICATION For CI79 Series of 7.5-5.0mm Pitch Breakaway Pin Header | SPEC.NO.: SPCI047C |
| REVISIONS | ECN10052 | | PAGE: 1/3 |

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

3. APPLICABLE SERIES NO.: CI79 Series

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

See attached drawings

6. ACCOMMODATED P.C.BOARD

6.1 Thickness: 1.6 mm (.063")

6.2 P.C. Board Layout: See attached drawings



REVIEWED : David APPROVED : Eisley VERIFIED : Sandy .

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7. ELECTRICAL PERFORMANCE:

| | ITEM | TEST CONDITION | REQUIREMENT |
|-----|---------------------------|---|---------------------|
| 7.1 | Rated current and voltage | | 7A 250V AC (r.m.s.) |
| 7.2 | Contact resistance | Dry circuit of DC 20 mV max. , 100 mA max. | Less than 10 mΩ |
| 7.3 | Dielectric strength | When applied AC 1500 V 1 minute between adjacent terminal | No change |
| 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 3.0 Kgf |

9. ENVIRONMENTAL PERFORMANCE:

| | ITEM | TEST CONDITION | REQUIREMENT |
|-----|------------------------------|--|--|
| 9.1 | Solder ability | Soldering time: 5 ± 0.5 second Soldering pot: 230 ± 5°C | Minimum: 90% of immersed area |
| 9.2 | Resistance to soldering heat | Soldering time: 5 ± 0.5 second Soldering pot: 260 ± 5°C | No damage |
| 9.3 | Hand Soldering Method | Use a soldering iron that has a sufficient head capacity and high stability of temperature. The tip of the iron should be shaped so as not to touch the part body directly. Temperature : 350±10°C 3 Sec | No damage |
| 9.4 | Heat aging | 105 ± 2°C , 96 hours | No damage |
| 9.5 | Humidity | 40 ± 2°C , 90-95% RH , 96 hours measurement must be taken within 30 min. after tested | Appearance: No damage Contact resistance: Less than twice of initial Dielectric strength: To pass para 7-3 |



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| | ITEM | TEST CONDITION | REQUIREMENT |
|-----|---------------------|---|--|
| 9.6 | Temperature cycling | One cycle consists of : (1)-55 ⁺⁰ / ₋₃ °C , 30 min. (2)Room temp. 10-15 min. (3) 85 ⁺³ / ₋₀ °C , 30 min. (4)Room temp. 10-15 min. | Appearance: No damage Contact resistance: Less than twice of initial |
| 9.7 | Salt spray | Temperature: 35 ± 3°C Solution: 5 ± 1% Spray time: 48 ± 4 hours Measurement must be taken after water rinse | Appearance: No damage Contact resistance: Less than twice of initial |

10. AMBIENT TEMPERATURE RANGE: -40 to +105°C