



ENGINEERING DEPT.	PRODUCT SPECIFICATION For CT05 Series Board In Terminal	SPEC.NO. SPCT004C
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1. SCOPE:

This specification contains the test requirement of subject Terminal 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.: CT05 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: AL 12/18/01 APPROVED: David 12/18/01 VERIFIED: Rita 12/17/01

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**7. ELECTRICAL PERFORMANCE:**

	ITEM	TEST CONDITION	REQUIREMENT
7.1	Rated current and voltage	When crimped AWG#18~20 size wire When crimped AWG#22~24 size wire	5A 250V AC (r.m.s.) 3A 250V AC (r.m.s.)
7.2	Contact resistance on Crimped portion	Crimp the wire to the terminal, measure by dry circuit, 20mV max., 100 mA max., Wire resistance shall be removed from the measured value.	Less than 5 m Ω

**8. MECHANICAL PERFORMANCE:**

	ITEM	TEST CONDITION	REQUIREMENT
8.1	Wire size	Specified wire size	Accepts AWG#18~#24
8.2	Terminal crimp Tensile strength	When crimped AWG#18 size wire When crimped AWG#20 size wire When crimped AWG#22 size wire When crimped AWG#24 size wire	More than 9.0 Kgf More than 7.0 Kgf More than 5.0 Kgf More than 3.0 Kgf

**9. ENVIRONMENTAL PERFORMANCE:**

	ITEM	TEST CONDITION	REQUIREMENT
9.1	Solder ability	Soldering time: $5 \pm 0.5$ second Soldering pot: $230 \pm 5^{\circ}\text{C}$	Minimum: 90% of immersed area
9.2	Resistance to soldering heat	Soldering time: $5 \pm 0.5$ second Soldering pot: $260 \pm 5^{\circ}\text{C}$	No damage
9.3	Heat aging	$105 \pm 2^{\circ}\text{C}$ , 96 hours	No damage
9.4	Humidity	$40 \pm 2^{\circ}\text{C}$ , 90-95% RH, 96 hours measurement must be taken within 30 min. after tested	Appearance: No damage Dielectric strength: To pass para 7-2
9.5	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
9.6	Salt spray	Temperature: $35 \pm 3^{\circ}\text{C}$ Solution: $5 \pm 1\%$ Spray time: $48 \pm 4$ hours Measurement must be taken after water rinse	Appearance: No damage Contact resistance on Crimped portion: Less than twice of initial

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