

ENGINEERING	PRODUCT SPECIFICATION	SPEC.NO.: SPCS024A
DEPT.	For CS09 Series Connector System	PAGE: 1 / 4

1. SCOPE:

This specification contains the test requirement of subject DIP socket 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

3. APPLICABLE SERIES NO.: CS09 Series

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

See attached drawings

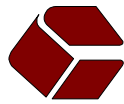
6. ACCOMMODATED P.C.BOARD

6.1 Thickness: 1.6 mm (.063")

6.2 P.C. Board Layout: See attached drawings



REVIEWED : Alex APPROVED : David VERIFIED : Sun .



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7. ELECTRICAL PERFORMANCE:

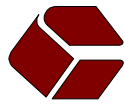
	ITEM	TEST CONDITION	REQUIREMENT
7.1	Rated current / Voltage		3A / 150V AC/DC
7.2	Contact resistance	Dry circuit of DC 20 mV max. , 100 mA max.	Less than 10 mΩ
7.3	Dielectric strength	When applied AC 500 V 1minute between adjacent terminal	No change
7.4	Insulation resistance	When applied DC 500 V between adjacent terminal or ground	More than 10000 MΩ

8. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
8.1	Terminal Retention Force	Pull the terminal at the speed rate of 100±3mm per minute	0.2Kgf(1.96N)Min.

9. ENVIRONMENTAL PERFORMANCE:

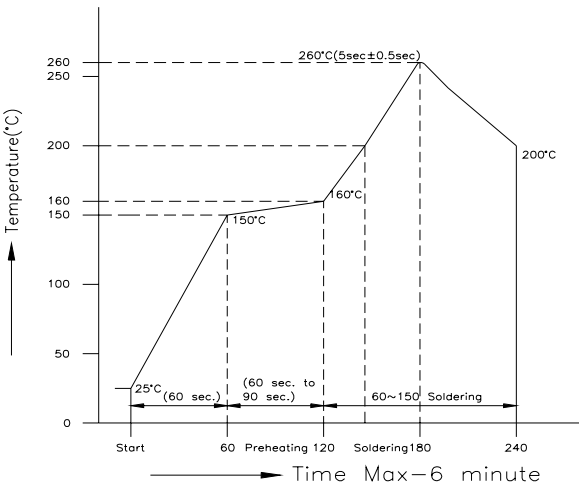
	ITEM	TEST CONDITION	REQUIREMENT
9.1	Repeated Insertion Extraction	Insert and extract applicable the Machine Pin Header up to 10 cycles per minute.	Contact Resistance: 10mΩ Max.
9.2	Temperature rise	Carrying rated current load.(UL498)	30°C max.
9.3	Vibration	1.5 mm 10-55-10 HZ/minute each 2 hours for X,Y and Z directions	Appearance: No damage Contact Resistance: 10mΩ Max. Discontinuity: 1 micro second max.
9.4	Shock	490m/S ² (50G),3 strokes in each X,Y,Z axes. (JIS C0041/MIL-STD-202 Method 213)	Appearance: No damage Discontinuity: 1 micro second max
9.5	Solder ability	Soldering time: 3±0.5 second Soldering pot: 260±5°C 1.2mm from terminal tip	Minimum: 95% of immersed area



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	ITEM	TEST CONDITION	REQUIREMENT
9.6	Resistance to soldering heat	Soldering time: 3 ± 0.5 second Soldering pot: $260\pm 5^{\circ}\text{C}$ 1.2mm from terminal tip	No damage
9.7	Heat Resistance	$85\pm 2^{\circ}\text{C}$, 96 hours	No damage Contact Resistance: 10m Ω Max.
9.8	Cold Resistance	$-40\pm 2^{\circ}\text{C}$, 96 hours	No damage Contact Resistance: 10m Ω Max.
9.9	Humidity	$40\pm 2^{\circ}\text{C}$, 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
9.10	Temperature cycling	5 cycle consists of : (1)- $55\pm 3^{\circ}\text{C}$, 30 min. (2)Room temp. 10-15 min. (3) $85\pm 2^{\circ}\text{C}$, 30 min. (4)Room temp. 10-15 min.	Appearance: No damage Contact resistance: Less than twice of initial
9.11	Salt spray	Temperature: $35\pm 2^{\circ}\text{C}$ Solution: $5\pm 1\%$ Spray time: 48 ± 4 hours Measurement must be taken after water rinse	Appearance: No damage Contact resistance: Less than twice of initial

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ITEM	TEST CONDITION	REQUIREMENT
9.12 Soldering Profile 9.12.1 Manual soldering 9.12.2 Wave-soldering 9.12.3 Reflow	<p>Solder temp: $350 \pm 5^{\circ}\text{C}$ Time: 3 ± 0.5 sec. Soldering temp: $260 \pm 5^{\circ}\text{C}$ Soldering time: 5 ± 0.5 sec. Preheating: $150 \pm 10^{\circ}\text{C}$ for 1 to 2 min.</p>  <p>Temp ramping rate: $1 \sim 7^{\circ}\text{C}/\text{sec}$ Preheat conditions: $\Delta \text{Temp} = 110 \text{ to } 150^{\circ}\text{C} @ 60 \text{ sec} < t < 120 \text{ sec}$ Temp ramping rate: $1 \sim 7^{\circ}\text{C}/\text{sec}$ Reflow conditions: $\Delta \text{Temp} = 183^{\circ}\text{C} \text{ to } T^{\text{peak}} \text{ to } 183^{\circ}\text{C} @ 60 \text{ sec} < t < 90 \text{ sec}$ $205^{\circ}\text{C} \text{ to } T^{\text{peak}} \text{ to } 260^{\circ}\text{C} @ \text{max. } 10 \text{ sec}$ Temp ramping rate: $1 \sim 7^{\circ}\text{C}/\text{sec}$</p> <p>Perform visual inspection,(item1),No physical damage, Color change and tarnishing is allowed, Electrical characteristics(item2) and Mechanical characteristics(iten3) after the soldering test</p>	<p>Supplier to provide measured data into the Tabel.1</p>

10. AMBIENT TEMPERATURE RANGE: -55 to $+125^{\circ}\text{C}$