



ENGINEERING DEPT.		PRODUCT SPECIFICATION For 1.00 mm (.039") Board to Board Connectors of System CB12	SPEC.NO.: SPCB054B
REVISIONS	ECNT120150		PAGE: 1/3

1. SCOPE:

This specification contains the test requirement of subject connectors 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
EIA 364	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.: CB12 Series

4. SHAPE,CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

See attached drawings

6. ACCOMMODATED P.C.BOARD

0.8 mm (.031") ~ 1.6 mm (.063")



REVIEWED : Eisley APPROVED : Sun VERIFIED : Jessic .

ENGINEERING DEPT.		PRODUCT SPECIFICATION For 1.00 mm (.039") Board to Board Connectors of System CB12	SPEC.NO.: SPCB054B
REVISIONS	ECNT120150		PAGE: 2/3

7. ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
7.1	Rated current and voltage		1A 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 300 V 1 minute between adjacent terminal	No damage
7.4	Insulation resistance	When applied DC 500 V between adjacent terminal	More than 1000 MΩ

8. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
8.1	Single contact insertion force	Measure force to insertion using 0.30 mm square pin at speed 25± 3 mm per minute	150 gram Max Per Contact.
8.2	Single contact withdrawal force	Measure force to withdrawal using 0.30 mm square pin at speed 25± 3 mm per minute	15 gram Min Per Contact.
8.3	Durability	Connector shall be subjected to 150 cycles of insertion and withdrawal	Appearance: No damage

9. ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
9.1	Solder ability	Soldering time: 3 ± 0.5 sec Soldering pot: 240 ± 5°C	Minimum: 95% of immersed area
9.2	Resistance to soldering heat	Soldering time: 7 ± 3 sec Soldering pot: 255 ± 5°C	No damage
9.3	Cold Resistance	-40°C ± 3°C, 96 hours	Appearance: No damage Contact resistance: △20 mΩ change
9.4	Heat Resistance	125°C ± 3°C, 96 hours	Appearance: No damage Contact resistance: △20 mΩ change

ENGINEERING DEPT.		PRODUCT SPECIFICATION For 1.00 mm (.039") Board to Board Connectors of System CB12	SPEC.NO.: SPCB054B
REVISIONS	ECNT120150		PAGE: 3/3

	ITEM	TEST CONDITION	REQUIREMENT
9.5	Temperature Cycling	5 cycles (1) -40 °C , 30 min. (2) Room temp. 10-15 min. (3) 125 °C , 30 min. (4) Room temp. 10-15 min.	Appearance: No damage Contact resistance: $\Delta 20 \text{ m}\Omega$ change
9.6	Salt Spray	Temperature: $35 \pm 3^\circ\text{C}$ Solution: $5 \pm 1\%$ Spray time: 48 ± 4 hours (Stamping before plated) Spray time: 24 ± 4 hours (Stamping after plated) Mate connectors and expose to the following salt mist conditions. Upon completion of the exposure period, salt deposits shall be removed by a gentle wash or dip in running water and dried naturally, after which the specified measurements shall be performed. The specimens shall be suspended from the top using waxed twine, string or nylon thread. The test only define the plating area, without plating area (as copper cross section) will not be defined. (EIA 364-26B / MIL-STD-202 Method 101)	Appearance: No damage Contact resistance: Less than twice of initial

10. OPERATING TEMPERATURE : -40°C to $+125^\circ\text{C}$