

ENGINEERING DEPT.		PRODUCT SPECIFICATION For CF69 Series Connector	SPEC.NO.: SPCF086B
REVISIONS	ECNT120078		PAGE: 1/4

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.: CF69 Series

4. SHAPE, CONSTRUCTION AND DIMENSIONS

See attached drawings

5. MATERIALS

See attached drawings

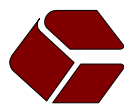
6. ACCOMMOATED P.C.BOARD

- 6.1 Thickness: 0.5 mm (.020") ~ 2.0 mm (.079")
- 6.2 P.C. Board Layout: See attached drawings

7. FPC/FFC RECOMMENDED SPECIFICATION:

Thickness : 0.3 ± 0.03 mm (.012 $\pm$.002")

REVIEWED : Eisley APPROVED : Sun VERIFIED : Michelle .



ENGINEERING DEPT.		PRODUCT SPECIFICATION For CF69 Series Connector	SPEC.NO.: SPCF086B
REVISIONS	ECNT120078		PAGE: 2/4

8. ELECTRICAL PERFORMANCE:

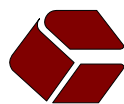
	ITEM	TEST CONDITION	REQUIREMENT
8.1	Rated current and voltage		0.5A DC 50V AC
8.2	Contact resistance	Dry circuit of DC 20 mV max. 100 mA max.	Less than 30 mΩ
8.3	Dielectric strength	When applied AC 500 V 1 minute between adjacent terminal	No change
8.4	Insulation resistance	When applied DC 500 V between adjacent terminal or ground	More than 500 MΩ

9. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
9.1	Contact retaining force in insulator	The end of terminal shall be pulled in a perpendicular to base housing at a maximum rate of 25.4 ± 3 mm per minute.	0.10 Kgf Min.
9.2	FFC/FPC Retention Force	Apply axial load to FFC/FPC by operating at the speed rate of 25.4 ± 3 mm per minute.	0.03 Kgf/Pin Min.
9.3	Durability	Mate applicable FFC/FPC and insert and withdraw actuator at the speed rate of 25.4 ± 3 mm per minute. Times :Up to 20cycles.	Appearance: No damage Contact Resistance: Less than twice of initial FFC/FPC retention force: 0.03 Kgf/Pin min
9.4	Fitting Nail Retention Force	Apply axial pull out of force at the speed of 25.4 ± 3 mm per minute on the fitting nail assembled in the housing.	0.10 Kgf Min.

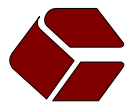
10. ENVIRONMENTAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
10.1	Temperature rise	Then carried the rated current	30°C max.
10.2	Vibration	1.5 mm 10 - 55 - 10 HZ/minute each 2 hours for X,Y and Z directions	Appearance: No damage Discontinuity: 1 micro second max.
10.3	Solder ability	Lead-Free Process: Soldering time: 3 ± 0.5 second Soldering pot: 245 ± 5 °C	Minimum: 95% of immersed area



ENGINEERING DEPT.		PRODUCT SPECIFICATION For CF69 Series Connector	SPEC.NO.: SPCF086B
REVISIONS	ECNT120078		PAGE: 3/4

	ITEM	TEST CONDITION	REQUIREMENT
10.4	Resistance to soldering heat	Lead-Free Process for SMT Type: Refer Reflow temperature profile(12.1)	No damage
10.5	Heat aging	85± 2 °C, 96 hours	Appearance: No damage Contact resistance: Less than twice of initial
10.6	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
10.7	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 Total cycle: 5 cycle	Appearance: No damage Contact resistance: Less than twice of initial
10.8	Salt spray	Temperature: 35 ± 3 °C Solution: 5 ± 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 Dielectric strength: To pass para 8-3



ENGINEERING DEPT.		PRODUCT SPECIFICATION For CF69 Series Connector	SPEC.NO.: SPCF086B
REVISIONS	ECNT120078		PAGE: 4/4

11. AMBIENT TEMPERATURE RANGE: -40 to + 85°C

12. Recommended IR Reflow Temperature Profile:

12.1 Using Lead-Free Solder Paste

