



ENGINEERING DEPT.		PRODUCT SPECIFICATION	SPEC.NO.:	SPCF044D
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1. SCOPE:

This specification contains the test requirement of subject connectors when tested under the condition and Inserted on the specified size FPC and FFC

2. APPLICABLE STANDARDS:

MIL - STD - 202 Methods for test of connectors for electronic equipment

EIA - 364Test methods for electrical connectors

- 3. APPLICABLE SERIES NO.: CF12**1*0T0-LF/-NH
- 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

7. ACCOMMODATED FPC/FFC THICKNESS

0.3 +0.04/-0.01 mm (.012+.002/-0")

REVIEWED: Eisley APPROVED: Sun VERIFIED: Michelle





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8. ELECTRICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
8.1	Rated current and voltage		1 A 200V AC (r.m.s.)
8.2	Contact resistance	Dry circuit of DC 20 mV max., 100 mA max.	Less than 20 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 M Ω

9. MECHANICAL PERFORMANCE:

	ITEM	TEST CONDITION	REQUIREMENT
9.1	Contact retaining force in insulator	Retention speed 25± 3 mm per minute from housing	More than 0.5 Kgf (4.9 N)
9.2	FPC / FFC withdrawal force (Reference data)	Measure force to withdrawal using 0.30 mm thickness FPC/FFC at speed 25± 3 mm per minute	(25 gramx No. of Circuits) Min. (0.245N x No. of Circuits) Min
9.3	Durability	Connector shall be subjected to 5 cycles of insertion and withdrawal	Contact resistance: Less than twice of initial

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	Soldering time: 3 ± 0.5 second Soldering pot: 245 ± 5°C	Minimum: 90% of immersed area
10.4	Resistance to soldering heat	Soldering time: 5 ± 0.5 second Soldering pot: 260 ± 5°C	No damage
10.5	Heat aging	105 ± 2°C , 96 hours	No damage
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 Dielectric strength: To pass para 8-3





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	ITEM	TEST CONDITION	REQUIREMENT
10.7	Temperature cycling	One cycle consists of:	Appearance: No damage
		$(1) -55^{+0}_{-3}$ °C, 30 min.	Contact resistance:
		(2)Room temp. 10-15 min.	Less than twice of initial
		(3) 85^{+3}_{-0} °C, 30 min.	
		(4)Room temp. 10-15 min.	
10.8	Salt spray	Temperature: 35 ± 3°C	Appearance: No damage
		Solution: 5 ± 1%	Contact resistance:
		Spray time: 48 ± 4 hours	Less than twice of initial
		(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)	

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