

ENGINEERING DEPT.

PRODUCT SPECIFICATION For CF25 Series Connector System

SPEC.NO.: SPCF030D

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1. SCOPE:

REVISIONS

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
MIL - STD - 1344	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.: CF25 Series
- 4. SHAPE, CONSTRUCTION AND DIMENSIONS See attached drawings

ECN11064

- 5. MATERIALS See attached drawings
- 6. ACCOMMODATED P.C.BOARD6.1 Thickness: 0.5 mm (.020") ~ 2.0 mm (.079")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 : <u>Eisley</u> APPROVED : <u>Clark</u> VERIFIED : <u>Sandy</u>.



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	REVISIONS ECN11064 For CF25 Series Connector System PAGE: 2/3 3. ELECTRICAL PERFORMANCE:					
	ITEM			TEST CONDITION	REQUIREMENT	
8.1	8.1 Rated current and voltage				For 0.5mm Pitch: 0.5A max. /50V AC/DC max. For 1.0mm Pitch: 1.0A max. 100V AC/DC max.	
8.2	2.2 Contact resistance D		Dry	circuit of DC 20 mV max., 1 mA max.	Less than 50 m Ω	
8.3	3 Dielectric strength		For 0.5mm Pitch: When applied AC 150 V 1 minute between adjacent terminal For 1.0mm Pitch: When applied AC 500 V 1 minute between adjacent terminal		No change	
8.4	.4 Insulation resistance W		Whe	n applied DC 100 V between adjacent inal or ground	More than 500 MΩ	

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 0.2 Kgf
9.2	FFC / FPC withdrawal force (Reference data)	Measure force to withdrawal using 0.30 mm thickness FPC / FFC at speed 25± 3 mm per minute	(0.07× no. of Contacts) Kgf min.
9.3	Durability	Connector shall be subjected to 20 cycles of insertion and withdrawal	No damage 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.



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10.3 10.4	Resistance to soldaring heat		lering time: 3 ± 0.5 second lering pot: 245 ± 5°C lering time: 20 second Max. lering pot: 250~260°C	Minimum: 90% of immersed area No damage
10.5	Heat aging	105	± 2°C , 96 hours	No damage
10.6	Humidity	mea	2°C, 90-95% RH, 96 hours surement must be taken within 30 min. tested	Appearance: No damage Contact resistance: Less than twice of initial Dielectric strength: To pass para 8-3
10.7	Temperature cy	(1) - (2)R (3)	cycle consists of : $-55_{-3}^{+0} \circ C$, 30 min. acoom temp. 10-15 min. $85_{-0}^{+3} \circ C$, 30 min. acoom temp. 10-15 min.	Appearance: No damage Contact resistance: Less than twice of initial
10.8	So Sr		aperature: 35 ± 3°C ation: 5 ± 1% ay time: 48 ± 4 hours surement must be taken after water rinse	Appearance: No damage Contact resistance: Less than twice of initial

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

12. Recommended IR Reflow Temperature Profile(Lead-Free):

