

SPECIFICATION AND PERFORMANCE

Series 120C-605D00	File	120C-605D00_Spec	Date	2017/03/02
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Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of 120C-605D00

Performance and Descriptions:

The product is designed to meet the electrical, mechanical and environmental performance requirements specification. Unless otherwise specified, all tests are performed at ambient environmental conditions.

RoHS:

All material in according with the RoHS environment related substances list controlled.

MATERIAL AND FINISH						
INSULATOR	Material	LCP UL94V-0, Black				
CONTACT	Material	Phosphor Bronze C5210, 0.2t Hold down: Brass, C2680, 0.2t				
	Plating	10u" Gold plating on contact area, Tin plating on solder area Hold down: Tin plating				
SHELL OR COVER	Material	Stainless Steel, SUS304, 0.2t				
	Plating					
RATING	Voltage Rating: 30VAC Current Rating: 1.5A Temperature Rating: -40°C to +85°C					

ELECTRI CAL							
Item	Requirement	Test Condition					
Contact Resistance	$30m\Omega$ max.(initial) $\Delta R = 15m\Omega$ max.	Subject mated contacts assembled in housing to 20 mV max. open circuit at 10mA.					
Dielectric Withstanding Voltage	No creeping discharge nor Flashover shall occur. Current leakage: 1mA max.	500V for one minute, test between adjacent circuit. EIA364,TP-20					
Insulation Resistance	1000M Ω min, initial 100M Ω min. after test	Impressed voltage 500VDC for one minute, test between adjacent circuit EIA364, TP-21					
Current Rating	30°C max. under loaded rating current 1.5A DC	The contacts shall be wired in series and apply rated current. Measure the temperature rising on contact. IEC512-PT3					



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Requirement mΩ max, initial = 15mΩ max8N max	Test Condition Cycle rate: 400 to 600 cycles per hours No. of cycles: 10,000cycles EI A364, TP-09 Measure the card push in force at 25mm/min. EI A364,TP-29
R=15mΩ max.	No. of cycles: 10,000cycles EIA364, TP-09 Measure the card push in force at 25mm/min.
.8N max	•
	=:::00:;:: =0
7N min.	Measure the card extraction force at 25mm/min. EIA364,TP-13
electrical connection and ysical damage to connector. .2 N Min. Mating force.	Test speed: 25mm/min. Mating device: Normal CFast card. Reference: EIA364,TP-3
lder Coverage: 95% Min.	Solder Temperature: 245±3°C Immersion Duration: 5±0.5sec. Solderability Test Method, Condition C JESD22-B102D
у	electrical connection and sical damage to connector. 2 N Min. Mating force.

ENVIRONMENTAL						
Item	Requirement	Test Condition				
Humidity	1,000M Ω (Initial) 100M Ω (After Test) 30m Ω max. (Initial) ΔR = 15m Ω max.	Ambient Temp.: $40\pm2^{\circ}$ C R. H.: 90 to 95%, Duration: 96hrs, D/C engaged. EIA364,TP-31 Method II, Condition A,				
Thermal Shock	1,000M Ω (Initial) 100M Ω (After Test) 30m Ω max. (Initial) ΔR = 15m Ω max.	Temp. Range: -40 to 85°C No. of Cycles: 5 cycles for 60 minutes Dummy card engaged during test EI A364,TP-32				
Physical Shock	No electrical discontinuity greater than 100n sec. shall occur. 30mΩ max. (Initial) ΔR= 15mΩ max.	Accelerated Velocity: 50G (490s/m) Waveform: Semi-Sine Duration: 11m sec. No of Shocks: 3/dir., 3 axis,(18 in total), EIA364,TP-27				
Vibration (Low Frequency)	No electrical discontinuity greater than 100n sec. shall occur. 30mΩ max. (Initial) ΔR= 15mΩ max.	Frequency Range: 10-55-10 Total Amplitude: 1.52mm pp or 98.1m/s Duration: 2hrs three axes (6hrs in total) EIA364,TP-28				
Temperature Life	30 m Ω max. (Initial) Δ R= 15 m Ω max.	Chamber Temperature: 85±3°C Duration: 250 hours Dummy card engaged during test EI A364,TP-17				
Salt Spray	$30m\Omega$ max. (Initial) ΔR = $15m\Omega$ max. Visual: no damage	Atmosphere: salt spray from 5% solution length of test 48hours exposure Temperature: 35±0.5°C No engagement during the test, EIA364, TP-26B				



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SOLDER ABILITY									
Ιt	em	Requirement	Test Condition						
Solder-He Resistance	er-Heat No evidence of deformation or		Test connector on PC board Pre-heat: 150°C to 180°C for 90sec. Heat 230°C for 30sec. Peak Temperature: 255°C±5°C, 10sec.						
Tempe	Temperature (°C)								
X	ĺ		_Peak temperature						
230									
450									
150	/	60-90 sec Preheating	20-30 sec Soldering						
5	/		Time (sec)						



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	Test Group									
Test Items	Α	В	С	D	Е	F	G	Н	I	
	Test Sequence									
Examination of The Product	1,5	1,5	1,6	1,8	1,7	1,7	1,7	1,3	1,3	
Low Level Contact Resistance	2,4		2,5	2,4,6			4,6			
Dielectric Withstanding Voltage					3,6	3,6				
Insulation Resistance					2,5	2,5				
Current Rating				7						
Total Mating Force		2								
Total Unmating Force		3								
Durability	3						2			
Card Reverse Insertion		4								
Vibration			4							
Mechanical Shock			3							
Temperature Life				3						
Reseating				5			5			
Humidity					4					
Thermal Shock						4				
Salt Spray							3			
Solderability								2		
Resistance to Reflow Soldering Heat									2	