

## SPECIFICATION AND PERFORMANCE

Series 115F-SERIES	2 File	115F-SERIES 2_SPEC_1	Date	2016/01/20
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## Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of :

PART NUMBER	DESCRIPTION
115F-AAA2	HINGE TYPE, 6+2 PIN, G/F, REEL, W/PEG, W/SWITCH, W/LOGO
115F-AAA3	HINGE TYPE, 6+2 PIN, G/F, REEL, W/O PEG, W/SWITCH, W/LOGO
115F-P1401014	HINGE TYPE, 6+2 PIN, G/F, REEL, W/PEG, W/SWITCH, W/LOGO, 8.6 TYPE

## **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	Contact: Phosphor Bronze C5210	
	Plating	Gold Flash plating on contact area, Tin plating on solder tails,	
		Nickel under-plating overall.	
COVER	Material	LCP UL94V-0, Black	
RATING	Voltage Rating: 30V DC per pin Max.		
	Current Rating: 0.5A per pin Min.		
	Operating Temperature : -40°C to +85°C		
	Storage Temperature : -40°C to +85°C		

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ELECTRICAL			
Item	Requirement	Test Condition	
Contact Resistance	Initial: 30mΩ Max.	(EIA 364-23)	
	After test: $100m\Omega$ Max.	Subject mated contacts assembled in housing to	
		20mV maximum open circuit at 100 mA maximum	
		The object of this test is to detail a standard	
		method to measure the electrical resistance across	
		a pair of mated contacts such that the insulating	
		films, if present will not be broken or asperity	
		melting will not occur.	
Insulation Resistance	1000MΩ Min.	(EIA 364-21)	
		Apply a 500V DC between adjacent terminals and	
		between terminals to ground	
Dielectric Withstanding	500V AC for 1 minute at	(EIA 364-20)	
Voltage	sea level, No flashover or	Apply a voltage 500V AC R.M.S for 1 minute	
	insulation breakdown	between adjacent terminals and between terminals	
		to ground.	

MECHANICAL			
Item	Requirement	Test Condition	
Contact Normal Force	0.2N min. per Pin	Apply perpendicular force to terminal at the rate of 12.5mm/min. Measure contact normal force at working height, read at return curve.	
Durability	No abnormal Contact Normal force: 0.2N min. pre Pin Contact Resistance: 100mΩ Max.	Mate and unmate connector to 5000 cycles. Take reading at 5000 cycles. 1 cycles (card loaded)= lid closed->lid locked->lid unlocked->lid opened Exchange the actually card every 2000 cycles.	

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ENVIRONMENTAL		
Item	Requirement	Test Condition
Vibration	No abnormal.	(EIA-364-28)
	Contact Resistance:	Amplitude:1.52mm P-P or 1.47mm/s^2
	$100m\Omega$ Max.	Sweep time:10~55~10Hz in 20 minutes
	Discontinuity:	Duration:12 time in each (total of 36 times)
	1 microsecond Max.	Electrical: DC 100 mA current
		Load shall be flowed during the test
Thermal Shock	No abnormal.	(EIA 364-32 I)
	Contact Resistance:	Subject mated connectors should be tested
	$100m\Omega$ Max.	according to the condition listed below:
		Temperature: -40 to 85°C
		Cycles: 5 cycles
		Exposure time at temp. Extremes: 30 minutes.
Salt Spray	No abnormal.	Subject mated connectors to 24 hours Min. at 35°C
		with 5%-Salt-solution concentration.
Humidity	No abnormal.	(EIA 364-31)
		Mate a dummy card and expose to $60\pm 2^{\circ}$ C for 96
		hours Relative humidity 90.Upon completion of the
		exposure period, the test specimens shall be
		conditioned at ambient room conditions for 1 to 2
		hours, after which the specified measurements
		shall be performed
Heat Resistance	No abnormal.	(EIA 364-17)
		Mate a dummy card and expose to $70\pm 2^{\circ}$ C for
		96Hr Upon completion of the exposure period, the
		test specimens shall be conditioned at ambient
		room conditions for 1 to 2Hr, after which the
		specified measurements shall be performed.

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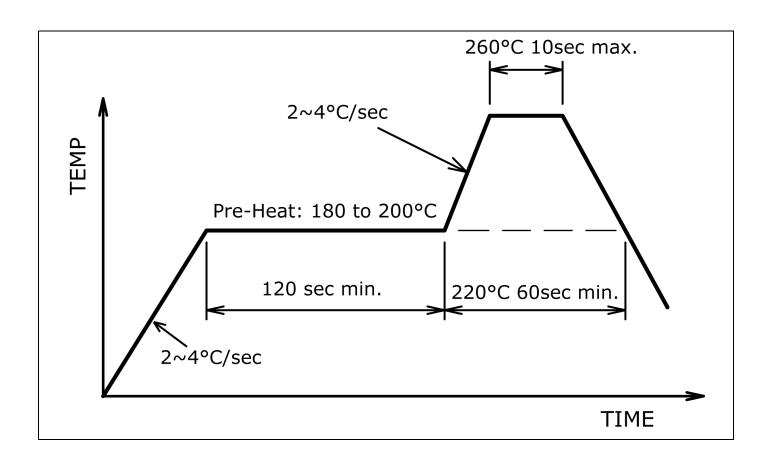
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SOLDER ABILITY			
Item	Requirement	Test Condition	
Solderability	The surface of the portion	(EIA 364-52)	
	to be soldered shall at	After one hour steam aging.	
	least 95% covered	The object of test procedure is to detail a unfirm	
		test methods for determining sim card connector	
		solderability.	
		The test procedure contained here utilizes the	
		solder dip technique. It is not intended to test or	
		evaluate solder cup, solder eyelet, other	
		hand-soldered type or SMT type terminations.	
Resistance to	No mechanical defect on	1).for MANUAL SOLDERING:	
Soldering Heat	housing or other parts.	Temperature : 380 ± 10°C	
		Immersion duration : $3 \pm 0.5$ sec.	
		2).for REFLOW SOLDERING:	
		Pre-heat : 150(Min)~200(Max) °C,	
		60 ~180 Seconds	
		Temperature : 260 ± 5 °C	
		Immersion duration : 10~40 sec.	

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