

SPECIFICATION AND PERFORMANCE

Series 115	5U series File	115U_Spec_2	Date	2021/1/27
------------	----------------	-------------	------	-----------

Scope:

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

P/N	DESCRIPTION		
115U-A000	6P Nano SIM Socket, Push-Pull Type, 1.3H, 10u" Gold Plating		

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.

MATERIALS				
NO.	PART NAME	DESCRIPTION		
1	INSULATOR	LCP UL94V-0, Black		
2	CONTACT	Phosphor Bronze, contact area gold plating, solder tails gold flash, all under plating 50u" nickel.		
3	SHELL	Stainless Steel, solder pad gold plating, under 30u" nickel plating over all		

RATING				
Rated Voltage	30V AC			
Rated Current	1A Max. per pin			
Operating Temperature	-40°C to +85°C			
Storage Temperature	-40°C to +85°C			
Durability	5000 cycles			

ELECTRI CAL					
Item	Test Condition				
		Measured between plug solder tails and receptacle solder tails. (EI A-364-23)			
Insulation Resistance	Initial: 1000 MΩ Min. At 100V DC	Test between center contact and outer shell of unmated samples of one minute. (EIA-364-21)			



新北市汐止區新台五路一段81號10樓之六 10F-6, No.81, Sec.1, Xintai 5th Rd., Xizhi-Dist., New Taipei City 221, Taiwan, R.O.C. TEL 886 2 2698 7028 FAX 886 2 2698 7078 WEBSITE www.attend.com.tw

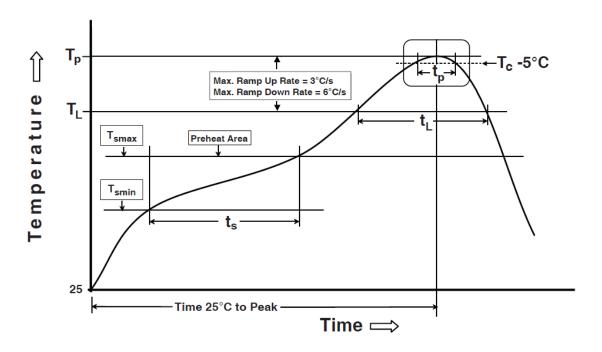
Dielectric Withstanding Voltage	500V AC(RMS) for one minute	Test between center contact and outer shell of one minute. (EIA-364-20)				
MECHANI CAL						
Item	Requirement	Test Condition				
Durability	 Contact Resistance: 40mΩ (Max.) change. No damage. 	Mate connectors up to 5000 cycles at a maximum rate of 400 to 600 cycles per hour prior to environmental test. (EI A-364-09)				
Vibration	 Finish 1. No electrical discontinuity more than 1μs. 2. No damage. 3. Contact Resistance: 40mΩ (Max.) change. 	Mate card and subjected to the following vibration conditions, for a period of 2 hours in each of 3 mutually perpendicular axes, with passing DC 1mA during the test. Amplitude: 1.52mm P-P or 19.6m/s^ 2{ 2G} Frequency: 10-55-10Hz Shall be traversed in 1 minute. (EIA-364-28)				
Mechanical Shock	 Finish 1. No electrical discontinuity more than 1μs. 2. No damage. 3. Contact Resistance: 40mΩ (Max.) change. 	Mate card and subjected to the following shock conditions. 3 mutually perpendicular axis, passing DC 1mA current during the test. (Total of 18 shocks) Test pulse: Half Sine Peak value: 490m/s^ 2{ 50G} Duration: 11ms (EIA-364-27)				

ENVIRONMENTAL						
Item	Requirement	Test Condition				
High Temperature Life	 Contact Resistance: 40mΩ (Max.) change. Insulation Resistance: 100MΩ (Min.) 	Temperature: 85±2°C Test time: 48 hours (JIS C0025)				
Cold Resistance	 Contact Resistance: 40mΩ (Max.) change. Insulation Resistance: 100MΩ (Min.) 	Temperature: -30±2°C Test time:48 hours (EIA-364-31A)				
Humidity	 Contact Resistance: 40mΩ (Max.) change. Insulation Resistance: 100MΩ (Min.) 	There shall be no any excessive corrosion on the every part of connector. Temperature: 40±2°C Humidity: 90~95% RH Test time: 120 hours (EIA-364-31A)				
Salt Spray	Finish	5±1% salt solutions, at 35±2°				



	 Contact Resistance: 40mΩ (Max.) change. No damage 	duration 24 hours. Connectors detached (EIA-364-26A)
	SOLDER ABILITY	
Item	Requirement	Test Condition
Solder-ability	95% of immersed area must show no voids, pin holes.	The termination should be 95% covered with new continuous solder coating. Solder temperature: 245±5°C Test time: 3±0.5 seconds (EIA-364-71)
Resistance to Soldering Heat	No melting, cracks or functional damage allowed.	When exposed to the following re- flow soldering condition, there shell be no any excessive thermal damage on the every part of connector.

Reflow Profile



Preheating temperature: $150 \sim 200$ °C, $60 \sim 120$ seconds Liquidus temperature (TL): 217°C, $60 \sim 150$ seconds

Peak temperature: 260°C

Time within 5 °C of peak temperature (Tc): 255°C, 30seconds



新北市汐止區新台五路一段81號10樓之六 10F-6, No.81, Sec.1, Xintai 5th Rd., Xizhi-Dist., New Taipei City 221, Taiwan, R.O.C. TEL 886 2 2698 7028 FAX 886 2 2698 7078 WEBSITE www.attend.com.tw

Test Sequence:

		Test Group							
Test Item	Α	В	С	D	Е	F	G	Н	I
Contact Resistance	1,4	1,3	1,3	1,3	1,4	1,4		1,3	
Insulation Resistance					2,5	2,5			
Dielectric Withstanding Voltage	2								
Durability	3								
Vibration		2							
Mechanical Shock			2						
High temperature				2					
Cold Resistance					3				
Humidity						3		3	
Solder ability							1		
Salt spray								2	
Resistance to Soldering Heat									1
Sample Quantity	4	4	4	4	4	4	4	4	4