

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

SPECIFICATION AND PERFORMANCE

Series 115S-BS00	File	115S-BS00_SPEC_2	Date	2021/04/21
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Scope:

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

P/ N	Description
115S-BS00	Nano SIM Socket, Dual Card Tray Eject Type, 30u"
115S-BT02	Nano SIM Tray, Dual Card, SUS316, Natural color, 16.9mm, Reel, with card clip

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.	NO. PART NAME DESCRIPTION						
1	INSULATOR	LCP E471i, UL94V-0, Black					
2	CONTACT	Phosphor Bronze C7025-TM03 0.15t, contact area: 30u" Gold plating, solder area: Gold flash, under plating 50u" MIN. Nickel					
3	SHELL	Stainless Steel SUS304 0.2t, solder area: Gold flash, under plating 12u" MIN. Nickel					
4							
5	CAM	Stainless Steel SUS304 0.4t					

RATING				
Current Rating 0.5A max.				
Voltage Rating	10VAC/DC			
Operating Temperature	-40°C to +105°C			
Storage Temperature	-40°C to +105°C			
Durability	2,000 cycles			



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	ELECTRI CAL								
Item Requirement Test Condition									
After test: 30 mΩ Max change		Solder connectors on PCB and mate them together, measure by applying closed circuit current of 10mA maximum at open circuit voltage of 20mV (max). (Per EIA-364-23)							
Insulation Resistance	Initial: 1,000 MΩ (Min).	Apply 500V DC between adjacent contacts, or contact and ground. (Per EIA-364-21)							
Dielectric Withstanding Voltage	No breakdown	500V AC (rms.) between two adjacent for 1 minute. (Trip current:1mA) (Per EIA-364-20)							

	MECHANI CAL								
Item	Requirement	Test Condition							
Tray Insertion Force	10 N Max. (1.0Kgf Max)	Push the Tray at the speed rate of 25±3 mm / minute.							
Removal Force 3N Min. (0.3Kgf Min) Eiect-Bar Push Force 4N~15N		Push the Tray at the speed rate of 25±3 mm / minute.							
		Push the Tray at the speed rate of 25±3 mm / minute.							
Contact Normal 0.20N Min./PIN (0.02kgf Min)		Measure contact normal force at the speed rate of 25±3 mm /minute. (Nano SIM card 0.60t)							
Durability	Contact Resistance: 30mΩ(Max) change No Damage.	Insertion and extraction are repeated 2,000 cycles (Tray) at the speed rate of 4 - 10 cycles / minute by hand.							

	ENVIRONMENTAL								
Item	Requirement	Test Condition							
Vibration	Finish 1. No electrical discontinuity more than 1μs. 2. No Damage 3. Contact Resistance: 30mΩ change max.	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/s2{ 2G} Frequency: 10-55-10Hz Shall be traversed in 1 minute. (Per EIA-364-28)							



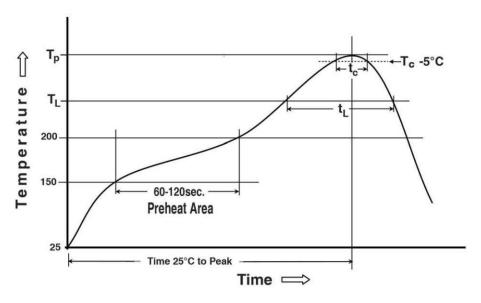
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Mechanical Shock	Finish: 1. No electrical discontinuity more than 1μs. 2. No Damage 3. Contact Resistance: 30mΩ(Max) change	conditions 3 Mutually DC 1mA c (Total of 1 Test pulse Peak valu Duration:	Mate card and subjected to the following shock conditions. 3 Mutually perpendicular axis, passing DC 1mA current during the test. (Total of 18 shocks) Test pulse: Half Sine Peak value: 490m/s² { 50G} Duration: 11ms (Per EIA-364-27)					
Thermal Shock	1 Contact Resistance: 30mΩ(Max) change 2 Insulation Resistance: 100MΩ(Min)	Stage t1 t2 t3 t4 Test time: (EIA-364-	Temp. (°C) -40 -40~105 105 105~-40 5 cycles	Time (Minute) 30 3 30 30 30				
High Temperature Life	1 Contact Resistance: 30mΩ(Max) change 2 Insulation Resistance: 100MΩ(Min)	Temperature: 105±2°C Test time: 96hour (EIA-364-17B)						
Cold Resistance	1 Contact Resistance: 30mΩ(Max) change 2 Insulation Resistance: 100MΩ(Min)	Temperature: -40±2°C Test time: 96hours (Per EIA-364-59A)						
Humidity	100MΩ(Min) 1 Contact Resistance: 30mΩ(Max) change 2 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: 120hours (EIA-364-31A)					
Salt spray	Finish: 1. No Damage 2. Contact Resistance: 30mΩ(Max) change	5±1% salt solutions, at 35±2°C 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 (Per 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: $150 \sim 200^{\circ}$ 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



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Table: Products Qualification Test Sequence

No.	ole: Products Qualification Test Sequence Test Group and Sequence Test item											
NO.	restitem	Α	В	С	D	Е	F	G	Н	I	J	K
1	Contact Resistance	1,7	1,3	1,3		1,4	1,4	1,4	1,4		1,3	
2	Insulation Resistance					2,5	2,5	2,5	2,5			
3	Dielectric Withstanding Voltage	2										
4	Tray Insertion Force	3										
5	Removal Force	6										
6	Eject Bar Push Force	4										
7	Contact Normal Force				1							
8	Durability	5										
9	Vibration		2									
10	Mechanical Shock			2								
11	Thermal Shock					3						
12	High Temperature Life						3					
13	Cold Resistance							3				
14	Humidity								3			
15	Solder Ability									1		
16	Salt Spray										2	
17	Resistance to Soldering Heat											1
	Sample Quantity	4	4	4	4	4	4	4	4	4	4	4
				1		1	1					