

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	115U-A101	File	115U-A101	Date	2022/07/27
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Scope:

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

Connector: (This part is a connector only, it should be used together with Nano SIM Tray P/N: 115U-T001)

P/N	Descriptions	-			
115U-A101	Nano SIM Socket,	6 Pin, Tray-Push	Push, Lock, G/F,	700 Reel	

Nano SIM trav:

P/N	Descriptions
115U-T001	Card Tray, Used for Nano SIM Card Socket Push-Push, Lock, PC+ ABS, Black, 700 PCS/Bag

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	Housing	LCP E130i, UL94-V0, black or equivalent					
2	Contact	Phosphor Bronze C5210 0.1t, 1u" min. Gold plating on contact area, 120u" min. matte-Tin plating on solder area, under plating 50u" min. Nickel over all					
3	Slider	LCP E130i, UL94-V0, black					
4	Shell	Stainless Steel SUS304, 0.10t, 50u" min. Nickel over all					
5	Crank	Stainless Steel SUS304					
6	Spring	SWP-B Dia. 0.18mm, 50u" min. Nickel plating over all					

RATING						
Rated Voltage 10V						
Rated Current	0.5A					
Operating Temperature	-40°C to +85°C					
Storage Temperature	-40°C to +85°C					
Durability	5,000 cycles					



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ELECTRI CAL								
ltem	Requirement	Test Condition						
Low Level Contact Resistance	Initial $50m\Omega$ Max. After test $100m\Omega$ Max.	Solder connectors to PCB and insert dummy card, measure by applying closed circuit current of 10mA maximum at open circuit voltage of 20mV (max). (Per EIA-364-23)						
Dielectric Withstanding No Broken Voltage		500V AC (rms.) between two adjacent for 1 minute. (Trip current:1mA) (Per EIA-364-20)						
Insulation Resistance 1000MΩ Min.		Apply 500V DC between adjacent contacts, or contact and ground. (EIA-364-21)						
Temperature Rise	30°C max.	EIA-364-70 Mate connectors, measure the temperature rise at rated current after 0.5A/Power contact. The temperature rise above ambient shall not exceed 30°C the ambient condition is still air at 25°C.						

MECHANICAL								
Item	Requirement	Test Condition						
Contact Normal Force	0.3N Min. per Pin	Take contact insert molding semi-finished products, no other parts, and solder on PCB, measure contact normal force at the speed rate of 25 mm/min. (use 0.6mm card thickness)						
Durability	5000 cycles, Push-Push function is normal, the card can be withdrawn smoothly. Final Contact Normal Force 0.3N Min.	Use manual operation, Solder connectors to PCB, 400 to 600 cycles per hours (EIA364-09)						
Tray Insertion Force (with card)	10N max.	Measure the force required to mate connector. Operation Speed: 25 mm/min. (EIA-364-13B)						
Tray Withdrawal Force 2N min. (with card)		Measure the force required to mate connector. Operation Speed: 25 mm/min. (EIA-364-13B)						

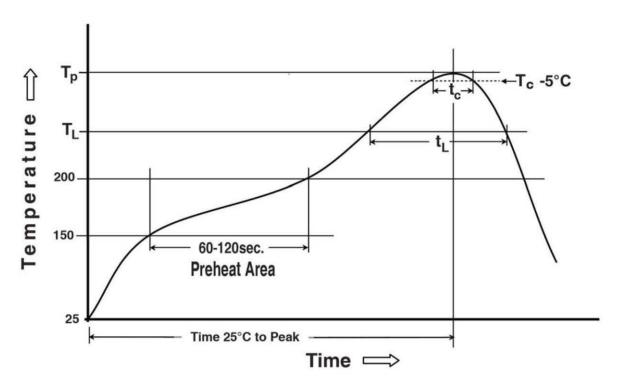


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ENVIRONMENTAL							
Item	Requirement	Test Condition					
Vibration	Discontinuity < 1 ms	EN60721-3-5 Class 5M3 Random vibration Test (3.38Grms) 10~500Hz, 3.38Grms, 1hr/per axis Test PSD: 10~200HZ: 3m²/S³, 200~500Hz, 1m²/S³					
Mechanical Shock	Discontinuity < 1 ms	EN60721-3-5 Class 5M3 Shock Test-Level II (100G/6ms)					
Temperature Life	Contact resistance 100 m Ω Max.	85±2°C Mated, series between samples, loading 5VDC/60mA, duration 96 hours (EIA-364-17, method B, condition 3)					
Thermal Shock Max. Change from initial contact Resistance 40mΩ Max No physical damage to connector shall occur.		Temperature Range: -55 to 85°C No. of Cycles: 5 cycles for 30 minutes (EIA364-32)					
		-40°C/96Hr (EIA-364-59)					
Humidity Meets ELECTRICAL requirements		Temperature: 70±2°C Relative humidity: 90~95% Duration: 96 hours					
Contact resistance 100 m Ω Max.		Temperature: 35±2°C Salt water density: 5±1% Duration: 48 hours					

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: 255±5°C Test time: 5±1 seconds, (Per EIA-364-71)					
Resistance to soldering heat	No melting, cracks or functional damage allowed	Preheating temperature: 150 ~ 200°C, 60~120 seconds Liquidus temperature (TL): 217°C, 60~150 seconds Peak temperature: 260°C Time within 5 °C of peak temperature (Tc): 255°C, 30 seconds					

Reflow Profile



Preheating temperature: $150 \sim 200^{\circ}\text{C}$, $60 \sim 120$ 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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Test Group & Sequence:

NO.	TESTITEM	TEST GROUP & SEQUENCE									
NO.		Α	В	С	D	E	F	G	Н	Į	J
1	Examination of Product	1,8	1,6	1,3	1,7	1,6	1,10	1,6	1,8	1,3	1,3
2	Low Level Contact Resistance	3,5	3,5		3,6	3,5	3,7	3,5			
3	Dielectric Withstanding Voltage						4,8		3,6		
4	Insulation Resistance						5,9		4,7		
5	Temperature Rise		4								
6	Contact Normal Force			2							
7	Durability	4									
8	Insertion Force	6									
9	Withdrawal Force	7									
10	Vibration				5						
11	Mechanical Shock				4						
12	Temperature Life					4					
13	Thermal Shock						6				
14	Cold Resistance							4			
15	Humidity								5		
16	Salt Water Spray									2	
17	Solderability										2
18	Reflow Soldering Heat Resistance	2	2		2	2	2	2	2		
	Quantities of Samples	3	3	3	3	3	3	3	3	3	3