

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-B100	File	115U-B100	Date	2021/12/27	
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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-T003)

P/N	Descriptions	
115U-B100	Dual Nano SIM Socket, Tray-Push Push, Lock w/Switch, G/F, Reel	

Nano SIM tray:

P/N	Descriptions
115U-T003	Card Tray, Used for 115U-B100, PC+ ABS, Black

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	DESCRI PTI ON				
1	Housing	LCP E130i, UL94-V0, black or equivalent				
2	Contact	Phosphor Bronze C5210 0.12t, 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 or equivalent				
4	Shell	Stainless Steel SUS304, 0.15t, 50u" min. Nickel over all				
5	Crank	Stainless Steel SUS304 Dia.0.3mm				
6	Spring	SWP-B Dia. 0.2mm, 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								
Item	Requirement	Test Condition						
Low Level Contact Resistance	100mΩ 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 Voltage	No Broken	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	0.5N Max. per Pin	Take contact insert molding semi-finished products, no other parts, fixed in jig, measure contact normal force at the speed rate of 25 mm/min.					
Durability	5000 cycles, Push-Push function is normal, the card can be withdrawn smoothly. LLCR 100 m Ω Max.	Use manual operation, Solder connectors to PCB, 400 to 600 cycles per hours (EIA364-09)					
Tray Push-Push Force 20N max.		Solder the connector to the PCB, install two cards on the tray and mate connector. measure the force required to push/push. Operation Speed: 25 mm/min. (EIA-364-13B)					
		Solder the connector to the PCB, install two cards on the tray and press in the lock position, measure the force required to pull out the tray. Operation Speed: 25 mm/min. (EIA-364-13B)					

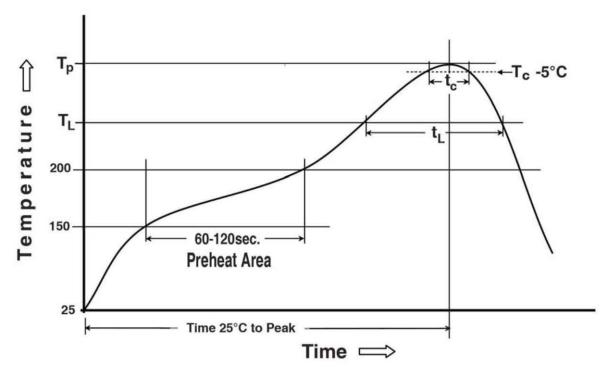


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ENVIRONMENTAL						
Item	Requirement	Test Condition				
Vibration	Discontinuity < 1 ms	EN60721-3-5 Class 5M3 Random vibration Test (3.38Grms) 10~500Hz, 3.38Grms, 1hr/per axis Test PSD: 10~200HZ: 3m²/S³, 200~500Hz, 1m²/S³				
Mechanical Shock	Discontinuity < 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 5V DC/60 mA, 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 1 hours (EIA364-32)				
Cold Resistance	Contact resistance 100 m Ω Max.	-40°C/96Hr (EIA-364-59)				
Humidity	Meets ELECTRICAL requirements	Temperature: 70±2°C Relative humidity: 90~95% Duration: 96 hours				
Salt Water Spray	No oxidation Contact resistance 100 m Ω Max.	Temperature: 35±2°C Salt water density: 5±1% Duration: 48 hours				

SOLDER ABILITY							
Item	Requirement	Test Condition					
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	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.	теят і тем	TEST GROUP & SEQUENCE									
NO.		Α	В	С	D	Е	F	G	Н	I	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	Tray Push-Push Force	6									
9	Tray Lock 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