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SPECIFICATION AND PERFORMANCE

Series	115U-B110	File	115U-B110_SPEC_1	Date	2025/03/06
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Scope:

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

Connector:

P/N	Descriptions
115U-B110	Dual Nano SIM Socket, Tray-Push Pull, Lock w/Switch, G/F, Reel

Nano SIM tray:

P/N	Descriptions
115U-T003	Card Tray, Used for 115U-B110, PBT, Black, Bag, L19.6mm
115U-T005	Card Tray, Used for 115U-B110, PBT, Black, Bag, L23.6mm
115U-T018	Card Tray for 115U-B110, Waterproof, Dual Nano SIM, PBT black, Bag, L=23.9

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	Housing	LCP E130i, UL94-V0, black or equivalent		
2	Contact	Copper alloy C7025 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		

RATING		
Rated Voltage	10V	
Rated Current	0.5A	
Operating Temperature	-40°C to +85°C	
Storage Temperature	-40°C to +85°C	
Durability	500 cycles	



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ELECTRICAL			
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	500 cycles, LLCR 100 m Ω	Use manual operation, Solder connectors to	
	Max.	PCB, 400 to 600 cycles per hours (EIA364-09)	

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)		



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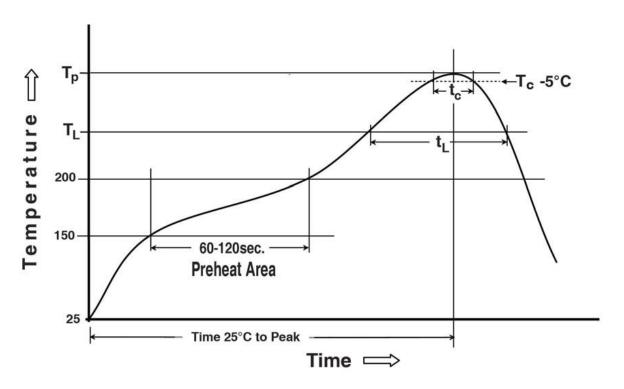
Cold Resistance	Contact resistance 100 m Ω Max.	-40°C/96Hr (EIA-364-59)
Humidity	Meets ELECTRICAL	Temperature : 70±2°C
	requirements	Relative humidity : 90~95%
		Duration : 96 hours
Salt Water Spray	No oxidation	Temperature: 35±2°C
Max.	Contact resistance 100 m Ω Max.	Salt water density : 5±1%
		Duration : 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: 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, 30seconds		

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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