

立威科技股份有限公司 Attend Technology Inc.

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-A110	File	115U-A110-SPEC_1	Date	2025/03/06
--------	-----------	------	------------------	------	------------

Scope:

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

Connector:

P/N	Descriptions
115U-A110	Nano SIM Socket, 6 Pin, Tray-Push Pull, Lock, G/F, Reel

Nano SIM tray:

P/N	Descriptions
115U-T007	Card Tray for 115U-A101/A110, Nano SIM, PBT black, Bag, L16.25
115U-T008	Card Tray for 115U-A101/A110, Nano SIM, PBT black, Bag, L18.25
115U-T017	Card Tray for 115U-A110, Waterproof, Nano SIM, PBT black, bag. L=20.25

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 0.1t, 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	

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		





ELECTRICAL			
Item	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 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	0.3N 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	500 cycles, Final Contact Normal Force 0.3N Min.	Use manual operation, Solder connectors to 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 5VDC/60mA, duration 96 hours (EIA-364-17, method B, condition 3)	



立威科技股份有限公司 Attend Technology Inc.

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

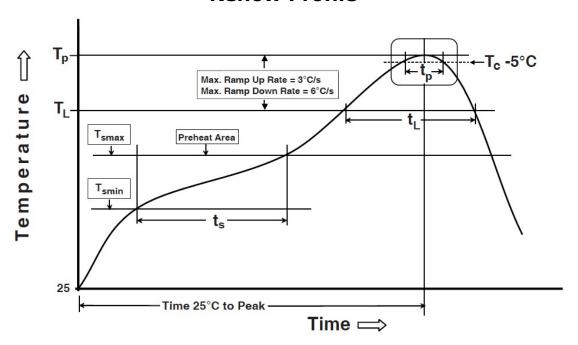
Thermal Shock	Max. Change from initial contact Resistance 40mΩ Max No physical damage to connector shall occur.	Temperature Range: -55 to 85°C No. of Cycles: 5 cycles for 30 minutes (EIA364-32)
Cold Resistance	Contact resistance 100 m Ω Max.	-40°C/96Hr (EIA-364-59)
Humidity	Meets ELECTRICAL requirements	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	
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, 30seconds	



立威科技股份有限公司 Attend Technology Inc.

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