

立威科技股份有限公司 Attend Technology Inc.

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SPECIFICATION AND PERFORMANCE

Series	115A Series	File	115A-Series_spec_5	Date	2022/03/04
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Scope:

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

P/N	DESCRIPTION
115A-BDA0-R01	SIM Card Socket, Push-Push Type, 8+2 Pin, 10u", Reel, w/switch, (w/Logo)
115A-ADA0-R02	SIM Card Socket, Push-Push Type, 6+2 Pin, 10u", Reel, w/switch, (w/Logo)
115A-ADAA-R02	SIM Card Socket, Push-Push Type, 6+2 Pin, 10u", Reel, w/o Peg, w/switch,
	(w/Logo)

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, UL94V-0, Black	
2	CONTACT	Phosphor Bronze, Gold plating on contact area, 120u" min. Tin plating on solder tails, under plating 50u" min. Nickel	
3	SHELL	SUS304, Gold plating on solder tails, under plating 50u" min. Nickel	
4	SLIDER	LCP, UL94V-0, Black	
5	CRANK	SUS304	
6	SPRING	SWP	

RATING		
Rated Voltage	30V AC/DC	
Rated Current	0.5A per pin	
Operating Temperature	-40°C to +85°C	
Storage Temperature	-40°C to +85°C	
Durability	10,000	

ELECTRICAL			
Item	Requirement	Test Condition	
Contact Resistance	100 mΩ Maximum (Initial)	Subject mated contacts assembled in housing	
(Low Level)	$\Delta R = 40 \text{ m}\Omega \text{ Max}.$	to 20 mV Max. Open circuit at 10 mA.	
Insulation Resistance	1000 MΩ Min. initial	Impressed voltage 500VD.C. for 1minute. Test	
	100 MΩ Min. after test	between adjacent circuit.	

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		EIA-364,TP-21
Dielectric Withstanding Voltage	No creeping discharge nor Flashover shall occur. Current leakage:	500 V for 1 minute. Test between adjacent circuit. EIA-364,TP-20
Temperature Rise	1 mA Max. 30 °C Max. under loaded rating current	The contacts shall be wired in series and apply rated current. Measure the temp. rising on contact.

MECHANICAL			
Item	Requirement	Test Condition	
Durability (Office Environment)	100 mΩ Maximum (Initial) $\Delta R = 40$ mΩ Max.	Cycle Rate: 400 to 600 cycles per hour. No. of Cycles: 10,000 cycles. EIA- 364,TP-09	
Durability (Harsh Environment)	100 mΩ Maximum (Initial) $\Delta R = 40$ mΩ Max.	Cycle Rate: 400 to 600 cycles per hour. 1. Mate/Unmating: 1,000 cycles 2. Dump Heat 1 cycles 3. Mate/Unmating: 1,000 cycles 4. Dump Heat: 1 cycles 5. Mate/Unmating: 3,000 cycles 6. Dump Heat 1 cycles 7. H2S 96 hours	
Contact Retention Force	1.0N Min. (Individual Contact)	Measure the contact retention force at 25.0 mm/min. EIA-364,TP-29	
Total Insertion Force	0.714Kgf (7 N) Max.	Measure the SIM card insertion force at 25 .0mm/min. EIA-364,TP-13	
Total withdrawal Force when SIM card is mated	0.026Kgf (0.25) N Min.	Measure the mated SIM card extraction force at 25 .0 mm/min. EIA-364,TP-13	
Card Reverse Insertion	No electrical connection and Physical damage to connector. Maintain push-and-eject function.	Test speed: 25 mm/ min. Mating device: Dummy SIM card. Reference: EIA-364,TP-3	
Vibration (Low Frequency)	No electrical discontinuity greater than 100 nsec. Shall occur.	Frequency Range: 10-55-10 Total Amplitude: 1.52 mm pp or 98.1m/s Duration: 2 hrs tree axes (6 hrs in total) EIA-364,TP-28	
Physical Shock	No electrical discontinuity greater than 100 nsec. Shall occur.	Accelerated Velocity: 50G (490s/m^2) Waveform: Semi Sine Duration: 11m sec. No of Shocks: 3/dir., 3 axis,(18 in total), EIA-364,TP-27	
Retention to PC board	1.02 kgf (10 N) Mim.	Apply force to connector in un-mating direction. Reference test procedure: EIA364, TP-13	



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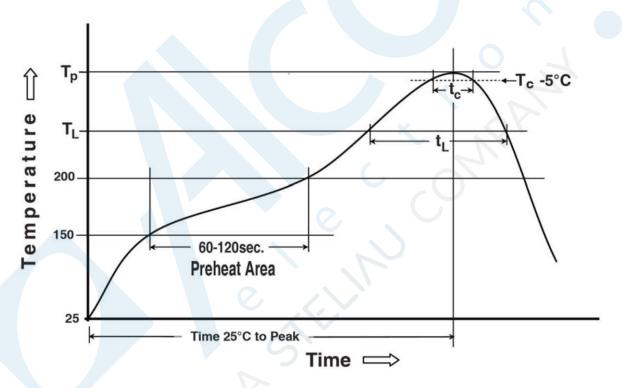
ENVIRONMENTAL			
Item	Requirement	Test Condition	
Humidity-Thermal Cycling	1,000 M Ω (Initial)	Ambient Temp.: 40±2°C Relative humidity:	
	100 MΩ(After Test)	90 to 95%	
	$\Delta R = 40 \text{ m}\Omega \text{ Max}.$	Duration: 10 cycles (Dummy engaged)	
		EIA-364,TP-31	
Thermal Shock	1,000 M Ω (Initial)	Temperature Range: 55 to 85°C No. of Cycles:	
	100 MΩ(After Test)	5 cycles for 60 minutes Dummy card engaged	
	$\Delta R = 40 \text{ m}\Omega \text{ Max}.$	during test	
	_	EIA-364,TP-32	
Dump Heat	$\Delta R = 40 \text{ m}\Omega \text{ Max}.$	Ambient Temp.: 40±2°C Relative humidity:	
		90 to 95%	
		Duration: 96 hours (Dummy engaged)	
		EIA-364,TP-31	
Temperature Life	$\Delta R = 40 \text{ m}\Omega \text{ Max}.$	Chamber Temperature: 85±3°C Duration:	
		250 hours	
4		Dummy card engaged during test	
	5 10 011	EIA-364,TP-17	
Low Temperature	$\Delta R = 40 \text{ m}\Omega \text{ Max}.$	Chamber Temperature: -40±3°C	
Resistance		Duration: 96 hours	
		Dummy card engaged during test	
Call Carrey Task	100 0 Marriago (Taritia)	EIA-364,TP-59	
Salt Spray Test	100 mΩ Maximum (Initial)	Salt Solution: 5±1%	
	$\Delta R = 40 \text{ m}\Omega \text{ Max}.$	Length of Test: 48 hours	
		Dummy card engaged during the test	
		EIA-364,TP-26	





SOLDER ABILITY			
Item	Requirement	Test Condition	
Solderability	Wet Solder Coverage: 90 % Min.	Solder Temperature: 245±3°C Immersion Duration: 3±0.5 sec. Solder: Sn-3Ag-0.5Cu Flux: RMA 25%	
Solder-Heat Resistance	$\Delta R = 40 \text{ m}\Omega \text{ Max}.$ No evidence of deformation or fusion of housing and no physical damage after test.	Test connector on PC Board. Pre-heat: 150 to 180°C for 90 sec. Heat 230°C for 30 sec. Peak Temp.: 255 °C	

Reflow Profile



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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