

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-B200	File	115U-B200	Date	2024/01/08
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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-B200	Micro SD and Nano SIM Socket, Stack Type, Tray Push-Push, w/Lock and Switch, 10u", C7025, Reel

Card tray:

P/N	Descriptions
115U-T009	Card Tray, Micro SD & Nano SIM, PBT, Black, Bag, 19.6mm
115U-T010	Card Tray, Micro SD & Micro SIM, PBT, Black, Bag, 19.6mm
115U-T012	Card Tray, Micro SD & Nano SIM, PBT, Black, Bag 21.6mm
115U-T013	Card Tray, Micro SD & Micro SIM, PBT, Black, Bag, 21.6mm

Performance and Descriptions:

The product is designed to meet the specifications for electrical, mechanical, and environmental performance requirements. Unless otherwise specified, all tests are conducted under 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	Cu-Ni-Si Copper alloy C7025 0.12t, 10u" 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 plating over all					
5	CRANK	Stainless steel SUS130M, Dia.0.3mm or equivalent					
6	SPRING	SWP-B Dia. 0.2mm, 50u" Min. nickel plating over all					

CARD	TRAY:	
1	BODY	PBT 4130, UL94V-0, black or equivalent



Singel 3 | B-2550 Kontich | Belgium | Tel. +32 (0)3 458 30 33 info@alcom.be | www.alcom.be Rivium 1e straat 52 | 2909 LE Capelle aan den IJssel | The Netherlands Tel. +31 (0)10 288 25 00 | info@alcom.nl | www.alcom.nl





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RATING					
Rated Voltage	10V				
Rated Current	0.5A				
Operating Temperature	-40°C to +105°C				
Storage Temperature	-40°C to +85°C				
Durability	5,000 cycles				

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	0.3N Min. 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)						
Tray Lock Force (with dual card)	3N min.	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)						



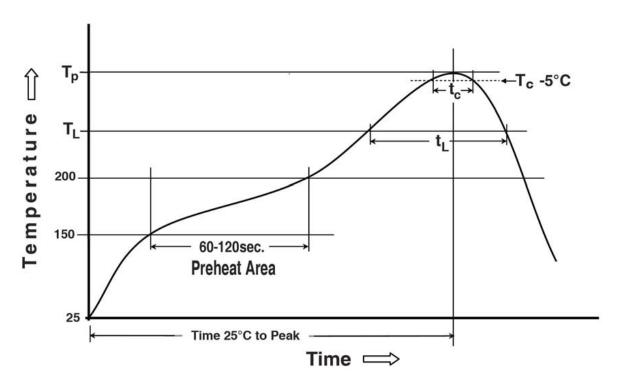
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ENVIRONMENTAL							
Item	Requirement	Test Condition					
Vibration Discontinuity < 1 ms		EN60721-3-5 Class 5M3 Random vibration Test (3.38Grms) 10~500Hz, 3.38Grms, 1hr/per axis Test PSD: 10~200HZ: 3m²/S³, 200~500Hz, 1m²/S³					
Mechanical Shock	Discontinuity < 1 ms	EN60721-3-5 Class 5M3 Shock Test-Level II (100G/6ms)					
Temperature Life Contact resistance 100 m Ω Max.		105±2°C Mated, series between samples, loading 5V DC/60 mA, duration 96 hours (EIA-364-17, method B, condition 4)					
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 mg/Max.		-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: 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						

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:

	тезт ітем	TEST GROUP & SEQUENCE									
NO.		Α	В	С	D	E	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	Solder ability										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



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