

立威科技股份有限公司 Attend Technology Inc.

SPECIFICATION AND PERFORMANCE

Series 1121-series	File	1121_Spec_1	Date	2020/07/28
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Scope:

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

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P/N	Description	
112I-TA01	Micro SD socket, Push-Pull Type, w/card switch, w/Peg, Reel	

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, black		
2	CONTACT	CONTACT Phosphor bronze C5191, G/F on Contact area, 50u" min. Tin plating or solder area, 50u" min. Nickel under plating over all		
3	SHELL	Brass C2680, 50u"min. Nickel plating		

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

ELECTRI CAL			
Item	Requirement	Test Condition	
Contact Resistance	Initial: 40 mΩ (Max)	Solder connectors on PCB and mate them together, measure by applying closed circuit current of 10mA maximum at open circuit voltage of 20mV (max). (JIS C5402 5.4)	
Insulation Resistance	Initial: 1000 MΩ(Min).	Apply 500V DC between adjacent contacts, or contact and ground. (MIL-STD-202 METHOD 302)	



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Dielectric	No breakdown	Mate connectors; apply 500V AC (rms.)
Withstanding Voltage		between two adjacent for 1minute.
		(Trip current:1mA)
		(MIL-STD-202 METHOD 301)

MECHANI CAL			
Item	Requirement	Test Condition	
Durability	Finish 1.Contact Resistance: 80mΩ (Max) 2.No Damage	EIA-364-09, 10000 cycles time, mate and unmated connectors for 500 cycles per hour.	
Mating Force	40N Max.	Measure forces necessary to mate connector. Rate: 12.5mm/Minute	
Un-mating Force	0.5N Min. and 40N Max.	Measure forces necessary to mate connector. Rate: 12.5mm/Minute	

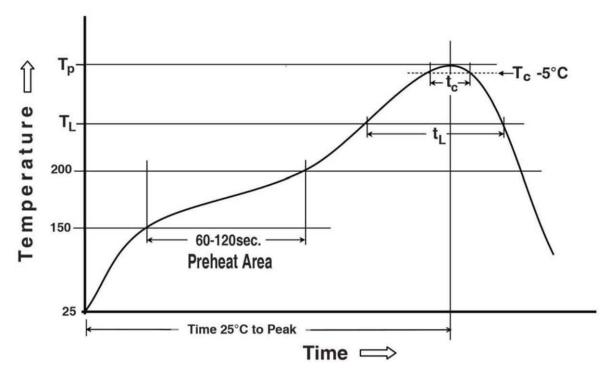
ENVIRONMENTAL			
Item	Requirement	Test Condition	
Humidity	Finish 1. Contact Resistance: 80mΩ (Max) 2. Insulation Resistance: 100MΩ (Min)	Humidity storage at +40°C with 90~95% RH for 96 hours. Upon completion of the exposure period, the test specimens shall be conditions for 1 of 2 hours, then 10 mating cycles while. (EIA364-31)	
Heat Resistance	Finish 1. Contact Resistance: $80m\Omega$ (Max) 2. Insulation Resistance: $100M\Omega$ (Min)	Connectors solder on PCB, expose to 85°C for 96hrs. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 of 2hrs, after which the specified measurements shall be performed. (MIL-STD-202 METHOD 108)	
Cold Resistance	Finish 1. Contact Resistance: 80mΩ (Max) 2. Insulation Resistance: 100MΩ (Min)	Connectors solder on PCB, expose to -25°C for 96hrs. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 of 2hrs, after which the specified measurements shall be performed. (EIA364-59)	
Salt Spray	Finish 1. Contact Resistance: 80mΩ (Max) 2 .No Damage	5 ± 1% salt solutions, at 35 ± 2°C duration 48 hours. Connectors detached (MIL-STD-1344)	



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SOLDER ABILITY			
ltem	Requirement	Test Condition	
Solder ability	95% of immersed area must show no voids , pin holes.	Dip solder tails into the molten solder(held at 230±5°C) up to 0.5mm from the tip of tails for 3±0.5 seconds. (MIL-STD-202 METHOD 208)	
Resistance to soldering heat	No melting, cracks or functional damage allowed	All connectors designed for PCB soldering within this specification must be able to withstand the heat from solder oven according to the graph below. The cycle should be repeated twice. (MIL-STD-202 METHOD 210)	

Reflow Profile



Preheating temperature: $150 \sim 200^{\circ}$ 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