

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

Scope:

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

1 · · · · · · · · · · · · · · · · · · ·	
P/N	Descriptions
115V-AD00	Nano SIM Socket, Hinge Type, 6Pin 10u" 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.	O. PART NAME DESCRIPTION						
1	Insulator	LCP S475, UL94V0, black					
2	Contact	Copper alloy C5210, 0.15t, Gold plating on contact area (see P/N description), Gold flash on solder area, under plating 50u" Min. Nickel					
3	Cover	Stainless Steel SUS304, 0.20t					
4	Ground	Stainless Steel SUS304, 0.20t, Gold flash on solder area, under plating 50u" Min. Nickel					

RATING					
Rated Voltage	10V				
Rated Current	0.5A				
Operating Temperature	-40°C to +105°C				
Storage Temperature	-40°C to +105°C				
Durability	100 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 into shell, measure by applying closed circuit current of 10mA maximum at open circuit voltage of 20mV (max). (Per EIA-364-23)					





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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)

MECHANICAL							
Item	Requirement	Test Condition					
Contact Normal Force	0.3N Min./Pin	Solder connectors to PCB, unlock the shell and open it to full level, measure contact normal					
		force at the speed rate of 1 mm /min.					
Terminal Durability	5000 cycles,	Solder connectors to PCB, insert the card into					
	Final Contact Normal Force	the shell and close the shell, press the shell to					
	0.3N min.	5000 times, press rate 10 times/min. max.					
Open & Lock Force	1.5N~20N with card	Solder connectors to PCB, parallel to push on					
		the shell surface for open & lock					
Open & Lock Durability	100 Cycles,	Solder connectors to PCB, insert the card into					
	Final Lock Force: 1.5N Min.	the shell and close the shell. Operate loop of					
	with card	shell, 1)unlock 2) open it to full level 3)close it					
		4) press and lock					

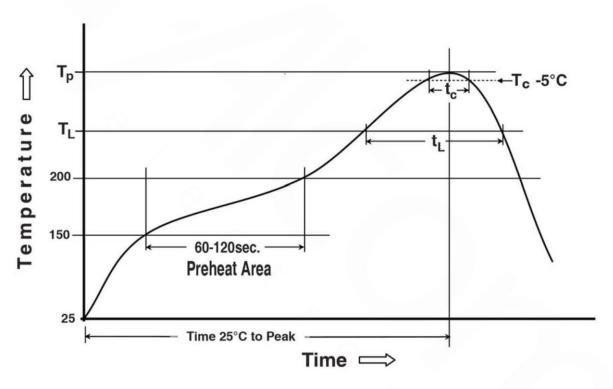
ENVIRONMENTAL							
Item	Requirement	Test Condition					
Vibration	Discontinuity < 1 ms	EN60721-3-5 Class 5M3 Random vibration					
		Test (3.38Grms) 10~500Hz, 3.38Grms,					
		1hr/per axis					
		Test PSD: 10~200HZ: 3m ² /S ³ , 200~500Hz,					
		1m ² /S ³ or EIA-364-28, Condition II					
Shock	Discontinuity < 1 ms	EN60721-3-5 Class 5M3 Shock Test-Level II					
		(100G/6ms) or EIA-364-27, Condition C					
Temperature Life Contact resistance 100 m Ω 1		105±2°C					
	Max.	Test procedure method B: with electrical load					
		for connectors, duration 96 hours					
		(EIA-364-17, method B, condition 4)					
		-40°C/96Hr					
	Max.	(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					
	Contact resistance 100 m Ω	Salt water density: 5±1%					
	Max.	Duration: 48 hours					

SOLDER ABILITY						
Item	Requirement	Test Condition				
Solder ability	95% of immersed area	The termination should be 95% covered with				



	must show no voids, pin	new continuous solder coating			
	holes	Solder temperature: 255±5°C			
		Test time: 5±1 seconds, (Per EIA-364-71)			
Resistance to soldering	No melting, cracks or	Preheating temperature: 150 ~ 200°C,			
heat	functional damage allowed	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



Test group & sequence:

N.O.		TEST GROUP & SEQUENCE								
NO.	TEST ITEM	Α	В	С	D	E	F	G	Н	I
1	Examination of Product	1,3,9	1,3,7	1,3,7	1,3,7	1,3,7	1,3,7	1,3,9	1,3	1,3
2	Low Level Contact Resistance	4,8		4,6	4,6	4,6	4,6			
3	Dielectric Withstanding Voltage							4,7		
4	Insulation Resistance							5,8		
5	Contact Normal Force	5,7								
6	Terminal Durability	6								
7	Cover Open & Lock Force		4,6							
8	Cover Open & Lock Durability		5							
9	Vibration			5						
10	Mechanical Shock				5					
11	Temperature Life					5				
12	Cold Resistance						5			
13	Humidity	\bigcirc						6		
14	Salt Water Spray								2	
15	Solder Ability									2
16	Reflow Soldering Heat Resistance	2	2	2	2	2	2	2		
	Quantities of Samples	4	4	4	4	4	4	4	4	4

