1. Scope

Nano Sim card connector series.

This Product Specification covers the Nano Sim Card Series connector.

2. Applicable document

The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the latest edition of the document applies. In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

3. Ordering information

Refer to the drawing.

4. Connector dimensions

Refer to the drawing.

5. Material

Housing: Thermoplastic (UL 94V-0)

Color: Black
Terminal: Copper alloy
Plating: Gold plated
Shell: Stainless steel

Plating: Nickel plated, gold on solder tail

6. Accommodated P.C.B layout

Refer to the drawing.

7. Rating

Operating voltage(Max.) 50V AC/DC Current rating(Max.) 0.5A AC/DC

Temperature range-operating -40°C -- +85°C(Including terminal temperature rese)

8. Performance

Test item	Requirement	Test Condition						
Examination of product	Meets requirements of product drawing and specification.	Visual inspection No physical damage						
Electrical Performance								
Contact Resistance		Mate connectors with dry circuit (20mV,100mA Max.) at minimum deflection. (EIA-364-23B)						

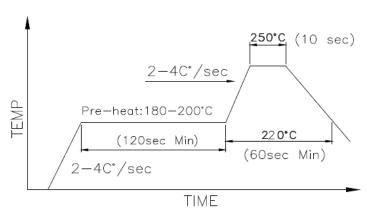


Test Years									
Test item	Rec	quirement	Test Condition						
Insulation Resistance	100 MΩ Min.		When applied DC 100V between adjacent terminal or gaound. (EIA-364-21C)						
Dielectric Strength	No evidence of flasho	ver or breakdown.	When applied AC 100V 1 minute between adjacent terminal. (EIA-364-23B)						
Mechanical Performance									
Durability	Appearance	No mechanical damage	Operation Speed: 200 cycles/H.						
Durability	Contact resistance	100mΩ Max.	-Durability Cycles: 5000 Cycles (EIA-364-09C)						
Normal force	0.2N min /circuit		Measures contact pressure at terminal contact point from housing surface 0.1mm.						
	Er	nvironmental Performance	and others						
Temperature Rise	30°C Max		Mated connectors: measure the temperature rise at the rated current 0.5A (EIA-364-70A)						
Humidity Life	Appearance	No Damage	Solder connectors on PCB, expose to 40±2℃ with 90~95% RH for 96 hours. Upon completion of the						
	Contact resistance	100mΩ Max.	exposure period, the test specimens shall be onditioned at ambient room conditions for 1 of 2 hours, after						
	Insulation resistance	100MΩ Min.	which the specified measurements shall be performed.						
Temperature Life (Heat Aging)	Appearance	No evidence of physical damage.	Mated Connector 85°C, 96 hours Upon completion of the exposure period, the test specimens shall be conditioned at ambient room						
	Contact resistance	100mΩ Max. (Finally).	conditions for 1 to 2 hours. (EIA-364-17B)						
Cold Resistance	Appearance	No evidence of physical damage.	Solder connectors on PCB ,expose to -40±3°C for 48 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room						
	Contact resistance	100mΩ Max.	conditions for 1 to 2 hours, after which the specified measurements shall be performed.						



Test item	Re	quirement	Test Condition						
	Appearance	No Damage	Samples shall be placed in the test chamber with the test condition for 5 cycles: 1>55°C ~ 30 minutes						
Thermal Shock	Contact resistance	100mΩ Max.	2>.+25°C ~ 5 minutes 3>.+85°C ~ 30 minutes						
	Insulation resistance	100MΩ Min.	4>.+25°C ~ 5 minutes (EIA-364-32A)						
Salt Spray	Appearance	No detrimental corrosion allowed in contact area.	Subject mated connectors to 35+/-2 °C and 5+/-1% salt condition for 24hours. After test, rinse the sample with water and recondition the room temperature for 2						
	Contact resistance	100mΩ Max.	hours. (EIA-364-26B)						
Solderability	No evidence of physic coverage: 95% min.	cal damage, Wet solder	The surfaces to be tested shall be immersed in flus for a minimum of 5 ± 0.5 second; the temperature of the solder bath shall be maintained as measured below the surface on the solder at $245^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (EIA-364-52)						
Resistance to soldering heat	No evidence of physic	cal damage	Test condition for reflow soldering. Refer to paragraph 9. (MIL-STD-202 F, Method 210 A)						

9. Reference infrared reflow condition





10. Test Sequence

	Test Group												
Test Item		В	С	D	Е	F	G	Н	I	J	K		
		Test Sequence											
Examination of Product		1	1,5	1	1,5	1,7	1,7	1,5	1,5	1,3	1,3		
Contact Resistance			2,4		2,4	2,6	2,6	2,4	2,4				
Insulation Resistance						3,5	3,5						
Dielectric Strength													
Temperature Rise		2											
Durability			3										
Normal force				2									
Cold Resistance					3								
Thermal Shock						4							
Humidity Life							4						
Temperature Life(Heat Aging)								3					
Salt Spray									3				
Solderability										2			
Resistance to soldering heat											2		
Number of Test Samples(minimum)		5	5	5	5	5	5	5	5	5	5		