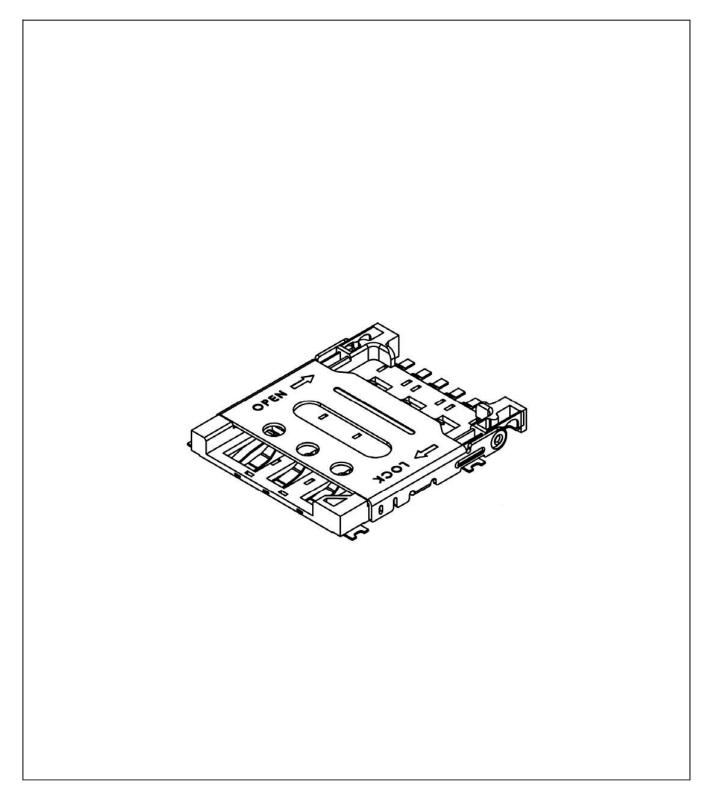
Part Number	SIM8060		Rev		В	Date	08/04/19
Product Description	Nano SIM Card Connecto 6Pin, 1.43mm Profile	r, Hinged Ty	ype, SMT,			Page	1
Doc Number	SIM8060	Prepared	СС	Checked	VJ	Approved	PH





Part Number	SIM8060			Rev		В	Date	08/04/19
Product Description	Nano SIM C 6Pin, 1.43mi	ard Connector m Profile	r, Hinged T	ype, SMT,			Page	2
Doc Number	SIM8060		Prepared	сс	Checked	VJ	Approved	РН
	<u>I</u>			ł		ł	1	ļ
1.0 SCOPE.								
	pecification co SIM Card Con	•			•		·).	
2.0 PRODUC	CT NAME AN	ID PART NU	MBER.					
Nano S	SIM Card Con	nector, Hinge	d Type, SM	T, 6 Pin,1.4	3mm Profi	le: SIM8060).	
3.0 PRODUC	CTSHAPE, D	IMENSIONS	AND MAT	FERIAL.				
Please	refer to drawi	ngs.						
4.0 RATING	S.							
Current	Rating		0.5A A	C/DC Max.				
Voltage	Rating		. 125V A0	C/DC				
Operati	ng Temperatu	re Range	20°C to	+85°C				
Storage	Temperature		40°C to	+70°C				
Storage	Humidity		Relative	Humidity: ≤	80%			
5.0 TEST AN	ID MEASUR	EMENT CON	DITIONS					
	designed to n n Paragraph 6 specified.							
6.0 PERFO	RMANCE.							

Item	Test Condition	Requirement
Examination of Product	Visual, dimensional and functional inspection as per quality plan.	Product shall meet requirements of product drawing and specification.



Part Number	SIM8060		Rev		В	Date	08/04/19
Product Description	Nano SIM Card Connecto 6Pin, 1.43mm Profile	r, Hinged Ty	/pe, SMT,			Page	3
Doc Number	SIM8060	Prepared	CC	Checked	VJ	Approved	РН

6.1 Electrical Performance.

Item	Test Condition	Requirement
Contact Resistance	Measure and record contact resistance of mated connector using test current of 10mA max and 20 mV open circuit voltage in accordance with EIA-364-23.	80 m Ω max initial 140 m Ω max after test.
Insulation Resistance	Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector. In accordance with EIA-364-21.	100 MΩ minimum @100V DC for 1 minute
Dielectric Strength	Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector. In accordance with EIA-364-20.	Connector must withstand test potential of 500 V AC for 1 minute. Current leakage must be 1.0 mA Max.

6.2 Mechanical Performance.

Item	Test Condition	Requirement
Durability	Mate & unmate Nano SIM card at vertical direction to the position equal to inserting a 0.67mm thick Nano SIM card for 5000 cycles. In accordance with EIA-364-09.	Contact Resistance: 100 m Ω max.
Contact Normal Force	Measure contact normal force at distance equal to inserting a 0.67mm thick Nano SIM card.	0.4N Min.
Cover Lock and Unlock Force	Lock and unlock cover at a rate of 25.4mm/min.	Lock Force: 1.5N Min. Unlock Force: 10N Max.
Mechanical shock	Subject the part to a 490 m/s2 half sine wave acceleration for 11 ms. Three shocks to be applied in each of the X, Y and Z planes and in both directions. A total of 18 shocks 10mA Max. Applied. In accordance with EIA-364-27.	Appearance: No Damage. Discontinuity: 1.0 μ second Max. Contact Resistance: 100 mΩ max
Vibration	Insert SIM card into connector and expose to 10 to 55 to 10 Hz frequency span over 1 minute at a 1.52mm amplitude for a total of 2Hours. Test to be conducted on 3 mutually perpendicular planes. 10mA Max. Applied. In accordance with EIA-364-28.	Appearance: No Damage. Discontinuity: 1.0 μ second Max. Contact Resistance: 100 mΩ max



Part Number	SIM8060		Rev		В	Date	08/04/19
Product Description	Nano SIM Card Connecto 6Pin, 1.43mm Profile	r, Hinged Ty	ype, SMT,			Page	4
Doc Number	SIM8060	Prepared	CC	Checked	VJ	Approved	РН

6.3 Environmental Performance and Others.

Item	Test Condition	Requirement
Temperature Rise	Mate card and measure the temperature rise of contact, when rated current is passed. In accordance with EIA-364-70 Method 1.	30°C Max
Solderability	Dip solders tails into molten solder, held at a temperature of 250±5°C up to 0.5mm from the tip of the tails for 3±0.5 seconds.	Contact solder pad has a min. 95% solder coverage
Resistance to Hand Soldering Heat	Soldering iron method Soldering Time: 5 sec. Solder Temperature: 370-400°C 0.5mm from terminal tip	No damage
Resistance to Reflow Soldering Heat.	Mount connector, place in reflow oven and expose to the temperature profile shown in fig 1.0	No evidence of physical damage of abnormalities adversely affecting performance.
Temperature Life	Subject mated connectors to temperature life at +85 °C for 96 hours	100 mΩ max.

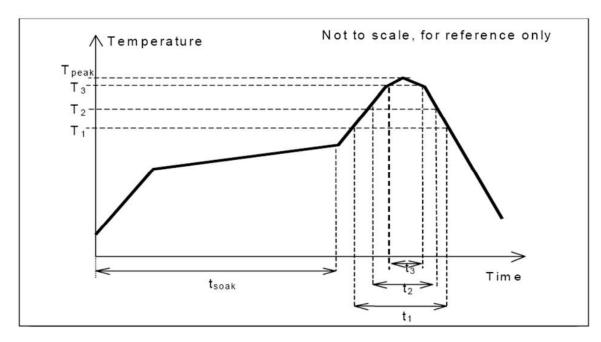


Part Number	SIM8060		Rev		В	Date	08/04/19
Product Description	Nano SIM Card Connecto 6Pin, 1.43mm Profile	r, Hinged Ty	ype, SMT,			Page	5
Doc Number	SIM8060	Prepared	СС	Checked	VJ	Approved	РН

6.4 REFLOW SOLDERING PROFILE

Pb-free reflow profile requirements

Parameter	Reference	Specification
Average temperature gradient in preheating		2.5°C/s
Soak time	tsoak	2-3 minutes
Time above 217°C	t1	60 s
Time above 230°C	t2	50 s
Time above 250°C	t3	5 s
Peak temperature in reflow	Tpeak	255°C (–0/+5°C)
Temperature gradient in cooling		Max -5°C/s



This profile is the minimum requirement for evaluating soldering heat resistance of components. Heat transfer method used for reflow soldering is hot air convection. The actual air temperatures used to achieve the specified profile is higher and largely dependent on the reflow equipment.



Part Number	SIM8060		Rev		В	Date	08/04/19
Product Description	Nano SIM Card Connecto 6Pin, 1.43mm Profile	r, Hinged Ty	ype, SMT,			Page	6
Doc Number	SIM8060	Prepared	СС	Checked	VJ	Approved	РН

7.0 PRODUCT QUALIFICATION AND TEST SEQUENCE

Test Item	Group							
l est item	Α	В	С	D	Е	F	G	
Examination of Product	1,7	1,3	1,3	1,3		1,6	1,5	
Contact Resistance	2,6					2,5	2,4	
Insulation Resistance	3							
Dielectric Withstanding Voltage	4							
Durability	5							
Temperature Rise		2						
Solderability			2					
Resistance to Soldering Heat				2				
Contact Normal Force					1			
Cover Lock and Unlock Force					2			
Mechanical shock						3		
Vibration						4		
Temperature life							3	



Part Number	SIM8060		Rev		В	Date	08/04/19
Product Description	Nano SIM Card Connector, Hinged Type, SMT, 6Pin, 1.43mm Profile					Page	7
Doc Number	SIM8060	Prepared	СС	Checked	VJ	Approved	РН

Revision details

Revision	Information	Page	Release Date	
A	Specification Released	-	06/09/2018	
В	Add test items: Mechanical shock, Vibration and Temperature life; Change operation temperature from -20°C to +60°C to -20°C to +85°C	2,3,4	08/04/2019	

