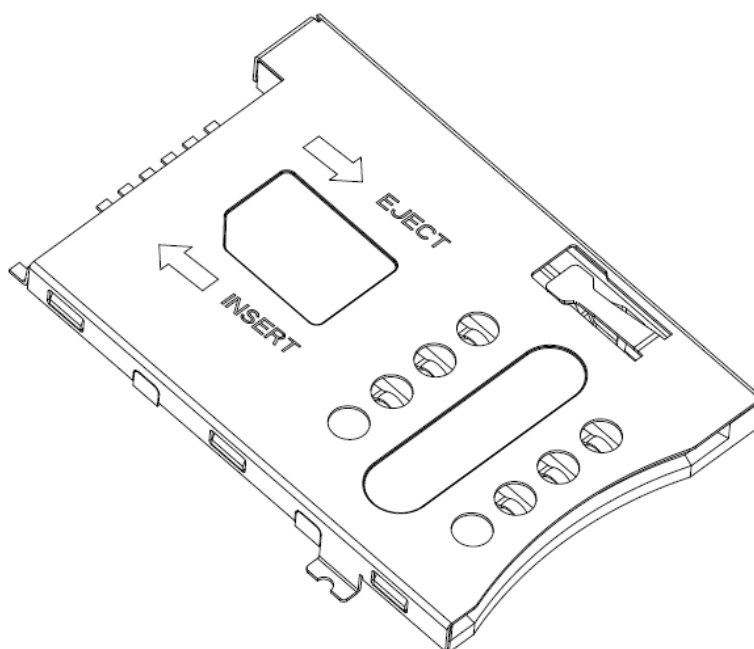




PRODUCT SPECIFICATION



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(NUCONN)

REVISION:	ECR/ECN INFORMATION:		PRODUCT NO	SCM15-A3-06011	SHEET No
A	EC No:	DATE:	PRODUCT NAME	SIM CARD CONN., PUSH-PUSH FUNTION , 6 POSITION TOP MOUNT, SMY TYPE	1 of 6
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PS-SCM-0005		JEFF.YANG		KENNY.CHEN	DEVIN.CHEN



PRODUCT SPECIFICATION

1.0 SCOPE

This Product Specification covers the performance requirements for the SIM Card connector (Push Push Type, 6 Pin, SMT, 2.54mm Pitch Profile).

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBER(S)

6 pos. 2.54mm pitch sim card connector

SCM15 series

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

See appropriate sales drawings for details on dimensions ,materials , plating and markings.

2.3 SAFETY AGENCY APPROVALS

See appropriate sales drawings

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

Please refer to the Sales Drawings , and other sections of this Specification for specific references to applicable documents and specifications. In cases where the Product Specification differs from the Sales Drawings, the Sales Drawing will take precedence

EIA-364 TEST METHODS FOR ELECTRICAL CONNECTORS

4.0 RATINGS

4.1 VOLTAGE

5 Volts AC(RMS) Max.

4.2 CURRENT

0.5 Amp DC

4.3 TEMPERATURE

Operating Temperature Range: - 40°C to + 60°C

Storage Temperature Range: - 40°C to + 85°C

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PRODUCT SPECIFICATION

5.0 PERFORMANCE

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

Electrical Requirements

2	Contact Resistance (LLCR)	75 mΩ Max(Initial)	Mate connectors: apply a maximum voltage of 20mV and a current of 100mA EIA 364-23A ;
3	Insulation Resistance	500 MΩ Min.	After 500 VDC for 1 minute, measure the insulation resistance between the adjacent contacts of mated and unmated connector assemblies. EIA 364-21C
4	Dielectric Withstanding Voltage	No creeping discharge or flash over. Current leakage:0.5A Max.	Mate connectors and apply 300V AC for 1 minute EIA 364-20B
5	Current Rating	Temperature rise: 30°C Max.	Apply the rated current to connector to connector EIA 364-70

Mechanical Requirements

6	Insertion Force	13.8 N Max.	Using a push-push gauge, perform insertion and removal at a speed of 25±3 mm/min.
7	Durability	△R: 20 milliohms Max (change from initial)	Operation Speed: 500 cycles/hr. Durability Cycles: 5000 Cycles (Compress pin until Maximum displacement) EIA 364-09A .
8	Vibration	No evidence of physical damage Contact Resistance ≤ 100mΩ Current discontinuity ≤ 0.1μs at end of test	Subject mated connectors to 10 to 55 to 10 Hz frequency span over 1 minute at a 1.52mm amplitude for a total of 15 minutes. Test to be conducted on 3 mutually perpendicular planes. 100mA Max. EIA 364-28

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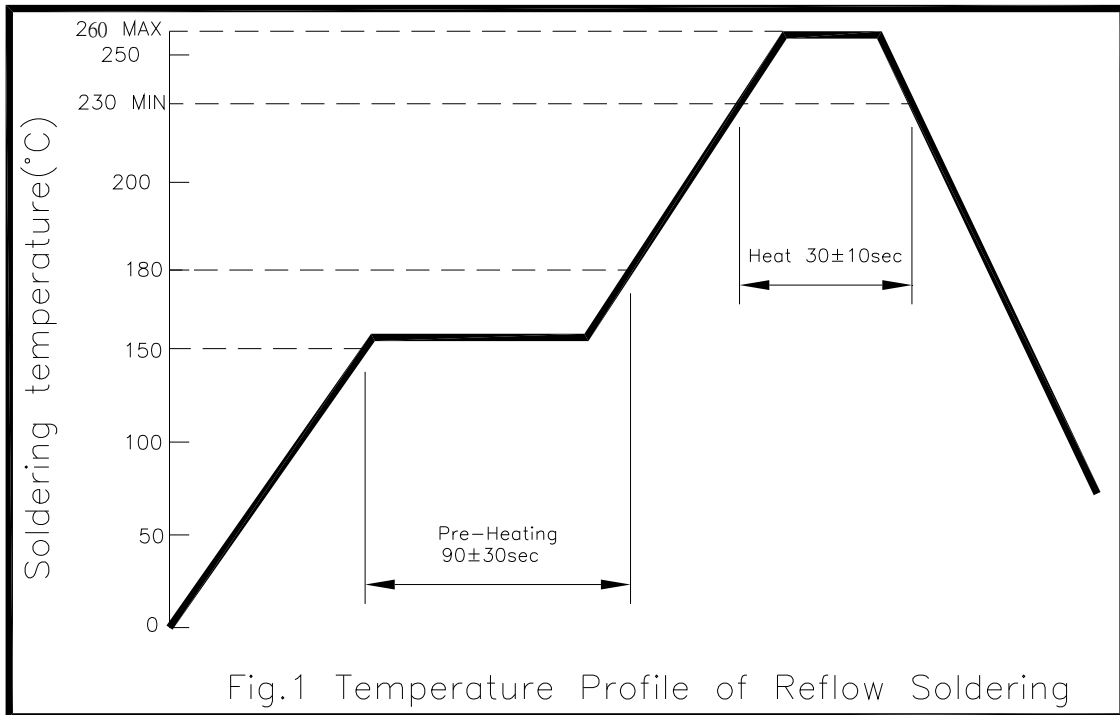


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9	Mechanical Shock	No evidence of physical damage Contact Resistance $\leq 100\text{m}\Omega$ Current discontinuity $\leq 1\mu\text{s}$ at end of test	Apply DC and 1mA to all contacts and subject the the part to a 294 m/s ² half sine wave acceleration for 11 ms. Three shocks to be applied in both directions. EIA 364-27B
Environmental Requirements			
10	Thermal Shock	No evidence of physical damage, discharge, flashes or corrosion in contact areas. Contact Resistance $\leq 100\text{ m}\Omega$ Insulation Resistance $\geq 100\text{ M}\Omega$	Mate Connector and perform the following thermal cycle: -40°C \pm 3°C for 30 minutes. +5°C to +35°C for 5 minutes +85°C to -2°C for 30 minutes +5°C to +35°C for 5 minutes Repeat for 5 cycles EIA 364-32C
11	Humidity Test		Mate connector and expose to temperature of 40 \pm 2°C with 95% RH for 96 hours then place in ambient temperature for 1 to 2 hrs EIA 364-31A
12	Salt Water Spray		Subject mated connectors to 35 \pm 2°C and 5 \pm 1% salt condition for 36hours. EIA 364-26B
13	Temperaure Life(High)		Subject mated connectors to 85 \pm 2°C for 250 hours. EIA 364-17B
14	Solderability	95% of immersed area must show no voids of pin holes.	Dip solders tails into molten solder, held at a temperature of 245 \pm 5°C for 5 \pm 0.5 second. EIA 364-52
15	Resistance to Reflow Soldering Heat	No evidence of physical damage or abnormalities adversely affecting performance.	Mount connector, place in reflow oven and expose to the temperature profiles shown in fig 1.0

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6.0 RECOMMENDED REFLOW PROFILE



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PRODUCT SPECIFICATION

7.0 PRODUCT QUALIFICATION AND TEST SEQUENCE

Test Items	Test Group							
	A	B	C	D	E	F	G	H
	Test Sequence							
Examination of product	1,7	1,10	1,6	1,9	1,9	1,5	1,3	1,3
Contact Resistance (LLCR)	3,6	2,7	2,4	2,6	2,6	2,4		
Insulation Resistance		3,8		3,7	3,7			
Dielectric Withstanding Voltage		4,9		4,8	4,8			
Current Rating			5					
Insertion Force	2,5							
Durability	4							
Vibration		5						
Mechanical Shock		6						
Thermal Shock				5				
Humidity Test					5			
Salt Water Spray						3		
Temperature Life			3					
Solderability							2	
Resistance to Reflow Soldering Heat.								2
Sample Q'TY	5	5	5	5	5	5	5	5

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