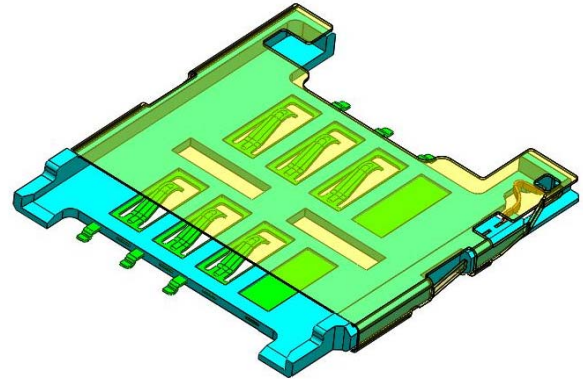


**SCM18/19**



**SCM22**

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(NUCONN)

REVISION:	ECR/ECN INFORMATION:		PRODUCT NO	SCM18,19,22 Series	SHEET No
<b>A</b>	EC No:	New SPEC	PRODUCT NAME	<b>8 &amp; 6 POS. 2.54mm PITCH SIM CARD CONNECTOR</b>	1 of 5
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<b>PS-SCM-0012</b>		ANDELEE.YANG		JEFF.YANG	KIMI.HSU



# PRODUCT SPECIFICATION

## 1.0 SCOPE

This Product Specification covers the performance requirements for 6 pos. 2.54mm sim card connector series. .

## 2.0 PRODUCT DESCRIPTION

### 2.1 PRODUCT NAME AND SERIES NUMBER(S)

8 & 6 pos. 2.54mm pitch sim card connector

**SCM18,19,22** 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

50 Volts DC

### 4.2 CURRENT

**0.2** A Max.

### 4.3 TEMPERATURE

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

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

## 5.0 PERFORMANCE

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Item	Test Items	Requirement	Procedures
1	Examination of Product	Meets requirements of product drawing. No physical damage.	Specimens shall be investigated by 10x (or higher) microscope.

## Electrical Requirements

2	Contact Resistance (Signal Pin)	40 milliohms Max(Initial)	Subject mated contacts assembled in housing to 20mV maximum open circuit at 100mA maximum. EIA 364-23;
2-1	Contact Resistance (Detect Pin)	500 milliohms Max(Final)	Subject Un-mated contacts assembled in housing to 20mV maximum open circuit at 100mA maximum. EIA 364-23;
3	Insulation Resistance	1000 Mega Ohm Min.	After 500 VDC for 1 minute, measure the insulation resistance between the adjacent contacts of mated and unmated connector assemblies. EIA 364-21
4	Dielectric Withstanding Voltage	No breakdown; current leakage < 5mA	Apply a voltage 500 V DC for 1 minute between adjacent terminals and between terminals to ground. EIA 364-20
5	Current Rating	Temperature rise: 30°C Max.	Apply the rated current to connector, EIA 364-70

## Mechanical Requirements

6	Durability	$\Delta$ R: 20 milliohms Max (change from initial)	Operation Speed: 500 cycles/hr. Durability Cycles: 5000 Cycles (Compress pin until Maximum displacement) EIA 364-09.
7	Vibration	$\Delta$ R: 20 milliohms Max (change from initial) & No electrical discontinuity greater than 1 $\mu$ sec.	Subject mated connectors to 10-200-500 Hz traversed in 1minutes at 1.52mm amplitude for 0.5 Hour each of 3 mutually perpendicular planes. 1.67Grms EIA 364-28; Test condition I

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8	<b>Mechanical Shock</b>	$\Delta R$ : 20 milliohms Max (change from initial) & No electrical discontinuity greater than 1 $\mu$ sec.	Accelerate Velocity: 490m/ s <sup>2</sup> (50G) Waveform: 11ms Half-sine shock Velocity Change: 3.4m/s No. of Drops: 3 drops each to normal and reversed directions of X,Y and Z axes, totally 18 drops, passing 1mA current during the test. EIA 364-27;Test Condition C
9	<b>Normal Force</b>	0.3N/pin Min.	Apply a perpendicular force at 0.10mm from housing.

## Environment Requirements

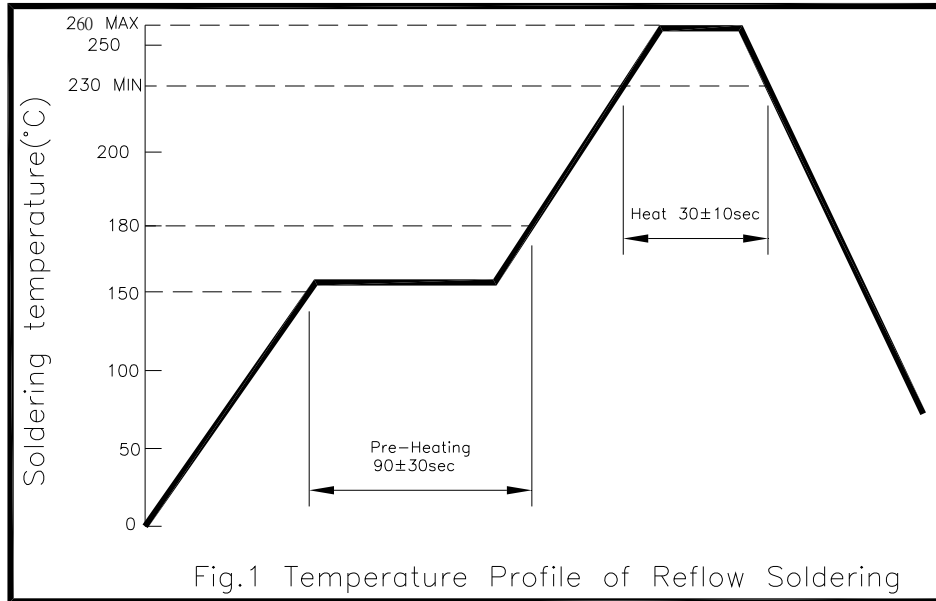
11	<b>Thermal Shock</b>	$\Delta R$ : 20 milliohms Max. (change from initial) & Appearance: no damage	Place free situation samples in chamber with 10 cycles, and one duration is -40 $^{\circ}$ C / (1.5h) ~ 85 $^{\circ}$ C / (1.5h). EIA-364-32
12	<b>Static Humidity</b>	$\Delta R$ : 20 milliohms Max. (change from initial) & Appearance: no damage	Test mated connector in chamber and expose to a temperature of 60 $\pm$ 2 $^{\circ}$ C with a relative humidity of 95%RH for 240 hours. Note: Remove surface moisture and air dry for 1 hour prior to measurements. EIA 364-31
13	<b>Solder ability</b>	Solder coverage: 95% MINIMUM	Dip solder tails into the molten solder(held at 245 $\pm$ 5 $^{\circ}$ C for 3 $\pm$ 0.5 sec. EIA 364-52
14	<b>Solder Heat Resistance</b>	Visual: No Damage to insulator material	Place connector o applicable P.C.B footprint and float on solder bath at 260 $\pm$ 5 $^{\circ}$ C for 10 $\pm$ 2 seconds. EIA 364-56; Refer to Fig.1
15	<b>Salt Spray</b>	$\Delta R$ : 20 milliohms Max. (change from initial) & Appearance: no damage	Duration: 48 hours exposure; Atmosphere: salt spray from a 5% solution. Temperature: 35 +1/-2 $^{\circ}$ C EIA 364-26
16	<b>Heat Temperature Life</b>	$\Delta R$ : 20 milliohms Max. (change from initial) & Appearance: no damage	Simulate mated situation samples at 70 $^{\circ}$ C for 240 hours. EIA 364-17
17	<b>Cold Temperature Life</b>	$\Delta R$ : 20 milliohms Max. (change from initial) & Appearance: no damage	Simulate mated situation samples at -20 $^{\circ}$ C for 240 hours EIA 364-17

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## 6.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage. See packaging appropriate drawings

## 7.0 RECOMMENDED REFLOW PROFILE



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