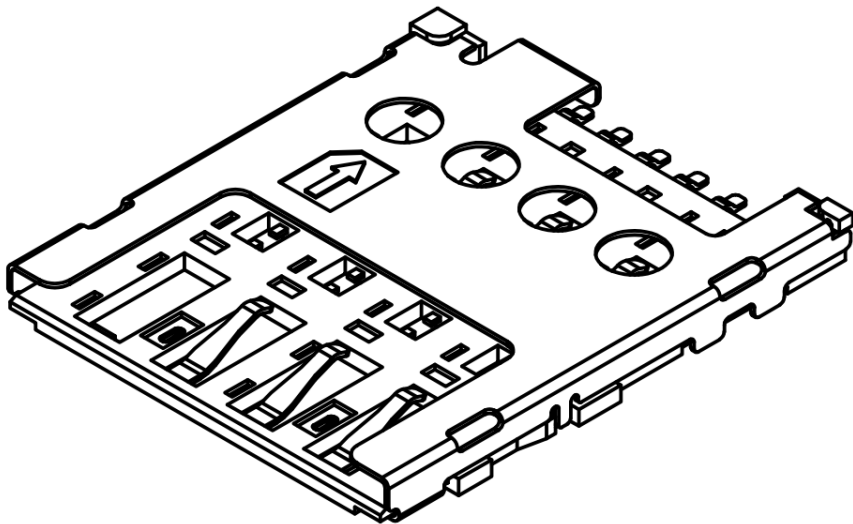


PRODUCT SPECIFICATION

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## 1.0 SCOPE

This specification covers performance, tests and quality requirements for the Micro SIM Card Connector SIM7205 (Push-Pull Type, 6Pin, SMT, 1.48mm Profile).

## 2.0 PRODUCT NAME AND PART NUMBER

Micro SIM Card Connector, 6Pin, Push-Pull Type: SIM7205.

## 3.0 PRODUCT SHAPE, DIMENSIONS AND MATERIAL

Please refer to drawing.

## 4.0 RATINGS

Current rating ..... 0.5A Max.  
Voltage rating ..... 30V AC/DC  
Operating Temperature Range ..... -30°C to +85°C  
Storage Temperature ..... -30°C to +85°C  
Storage Humidity..... Relative Humidity: 10% ~ 95% R.H.

## 5.0 TEST AND MEASUREMENT CONDITIONS

Product is designed to meet electrical, mechanical and environmental performance requirements specified in Paragraph 6.0. All tests are performed at ambient environmental conditions unless otherwise specified.

## 6.0 PERFORMANCE

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.

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## 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.	100 mΩ max initial
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.	1000 MΩ minimum@500V DC
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 500V AC for 1 minute.

## 6.2 Mechanical Performance

Item	Test Condition	Requirement
Durability	Insert & remove SIM card for 5000 cycles. In accordance with EIA-364-09.	Contact Resistance: 100mΩ max.
Vibration	Frequency: 10~100Hz, 0.0132 g <sup>2</sup> /Hz; Frequency: 100~500Hz, -3db/Oct Applied for 1 hour in each 3 mutually perpendicular axes (IEC60068-2-64-Fh)	No electrical discontinuity greater than 1 μs shall occur. Contact resistance:100mΩ max.
Mechanical Shock	Pulse shape = half sine Peak acceleration = 490m/s <sup>2</sup> (50G) Duration of pulse = 11ms Apply 3 successive shocks in each direction along the 3 mutually perpendicular axes. (IEC-60068-2-27-EA)	No electrical discontinuity greater than 1 μs shall occur. No damage to product. Contact resistance:100mΩ max.

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## 6.3 Environmental Performance and Others

Item	Test Condition	Requirement
Thermal Shock	5 cycles at Ta= -55°C for 0.5 hours, then change temp = 25°C MAX 5min, then, Tb = +85°C for 0.5hour, then cool to ambient. Recovery: 2hours at ambient atmosphere. In accordance with EIA-364-32	No damage, Contact Resistance (Low Level) (Final) 100mΩ max
Humidity Test	The card shall be mated and exposed to the condition of +40±2 @ 90~95% humidity for 96 hours Recovery time 1~2 hours. In accordance with EIA-364-31.	No damage, Contact Resistance (Low Level) (Final) 100mΩ max. Dielectric Strength should be OK, Insulation Resistance should be 100MΩ min.
Salt Spray	5±1% salt concentration 24 hours 35±2°C EIA-364-26	No rusty cracks found. Contact Resistance (Low Level) (Final) 100mΩ max
Temperature Life (High)	Subject product to 85±2°C for 96 hours continuously. EIA-364-17.	Contact resistance: 100mΩ max
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: 3 sec. Solder Temperature: 350 °C	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 or abnormalities adversely affecting performance.

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## 6.4 REFLOW SOLDERING PROFILE

Pb-free reflow profile requirements

Parameter	Reference	Specification
Average temperature gradient in preheating		2.5°C/s
Soak time	t <sub>soak</sub>	2-3 minutes
Time above 217°C	t <sub>1</sub>	60 s
Time above 230°C	t <sub>2</sub>	50 s
Time above 250°C	t <sub>3</sub>	5 s
Peak temperature in reflow	T <sub>peak</sub>	255°C (-0/+5°C)
Temperature gradient in cooling		Max -5°C/s

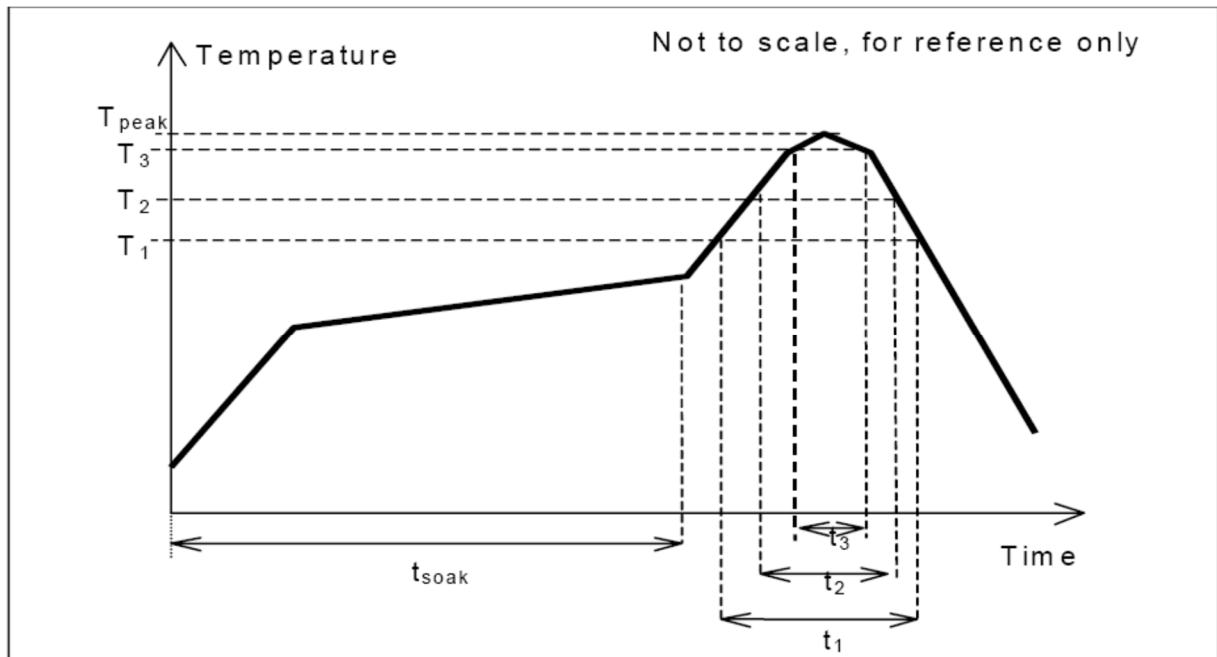


Fig 1.0 – This profile is the minimum requirement for evaluating soldering heat resistance of components. Heat transfer method used for reflow soldering is hot air convection. The actual air temperatures used to achieve the specified profile is higher and largely dependent on the reflow equipment.

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## 7.0 PRODUCT QUALIFICATION AND TEST SEQUENCE

Test Item	Group									
	A	B	C	D	E	F	G	H	I	J
Examination of Product	1,7	1,3	1,6	1,5	1,8	1,3	1,3	1,3	1,5	1,5
Contact Resistance	2,6		2,5	2,4	2,6				2,4	2,4
Insulation Resistance	3				3,7					
Dielectric Withstanding Voltage	4				4					
Durability	5									
Temperature Rise		2								
Vibration			3							
Shock			4							
Thermal Shock				3						
Humidity					5					
Solderability						2				
Resistance to hand Soldering Heat							2			
Resistance to reflow Soldering Heat								2		
Salt Spray									3	
High Temperature										3

# PRODUCT SPECIFICATION

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Revision details:

Revision	Information	Page	Release Date
0.1	First draft for review	-	04/11/2025
A	First Release	-	08/12/2025