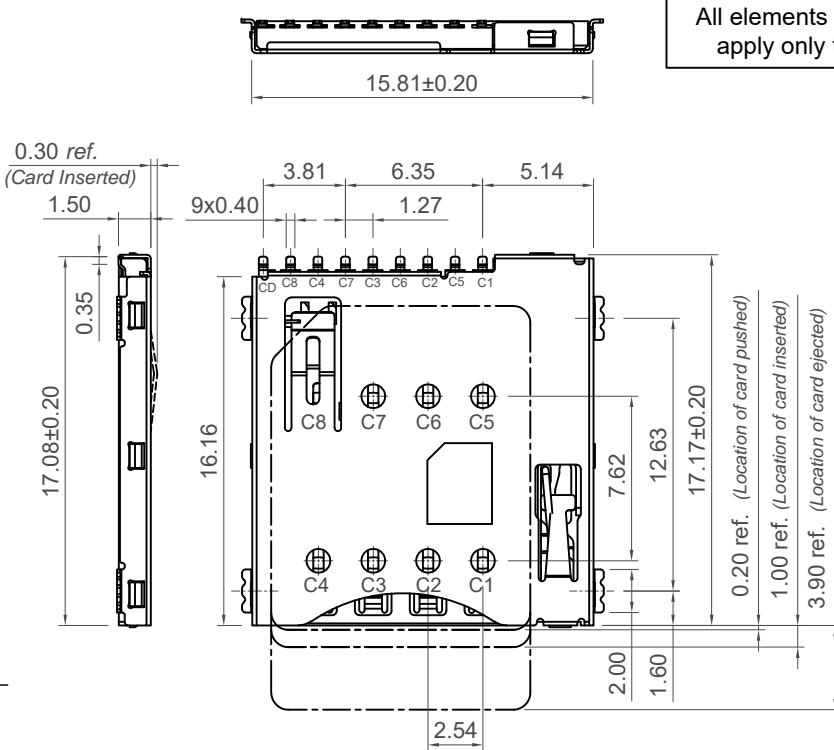
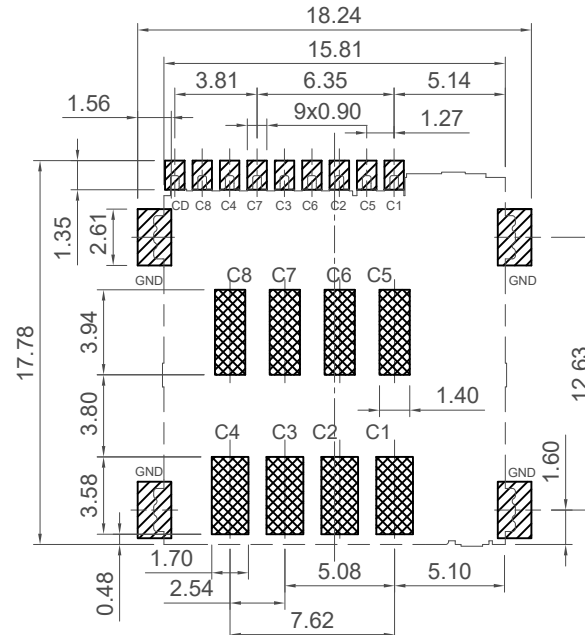


H
G
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B
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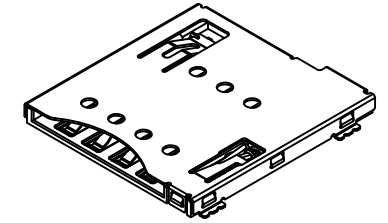
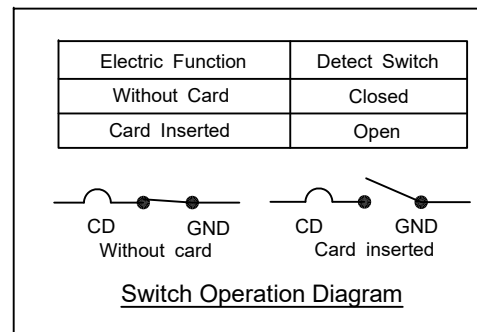
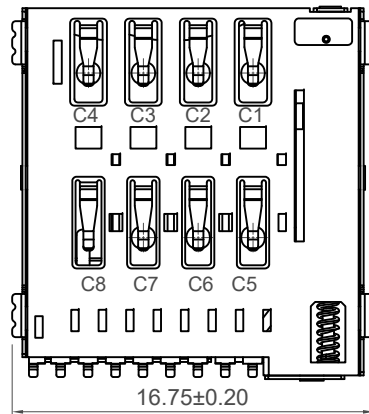
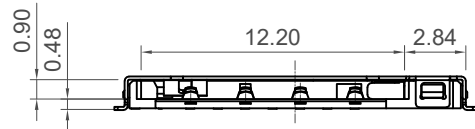


All elements marked as C4 and C8 apply only to 8 contact version.



Recommended PCB Layout
General Tolerance ±0.05

Locating peg holes only applicable to locating peg version
Solder Area Keep Out Area Component Outline



Specification:

Material:

Plastic Housing&Slider:
Thermoplastic, UL94V-0, Black
Contact Terminal & Card Detection Switch :
Phosphor Bronze
Shell,Cam Pin: Stainless Steel
Coil Spring: SWP (steel)

Plating:

Contact Terminal:
Contact Area: 3μ" Gold
Solder area: Gold Flash
Underplating: Ni overall 50μ" min.
Shell: Ni overall, 30μ" min.
Solder area: Gold Flash

Electrical:





Voltage Rating: 50V max.
Current Rating: 1A max.
Dielectric Withstanding: 500V AC
Insulation Resistance: 1000 MΩ min.
Contact Resistance: 100 mΩ max. (signal)
300 mΩ max. (switch)

Mechanical:

Duration: 1500 cycles
Operating Temperature: -40°C to +85°C

Ordering Grid

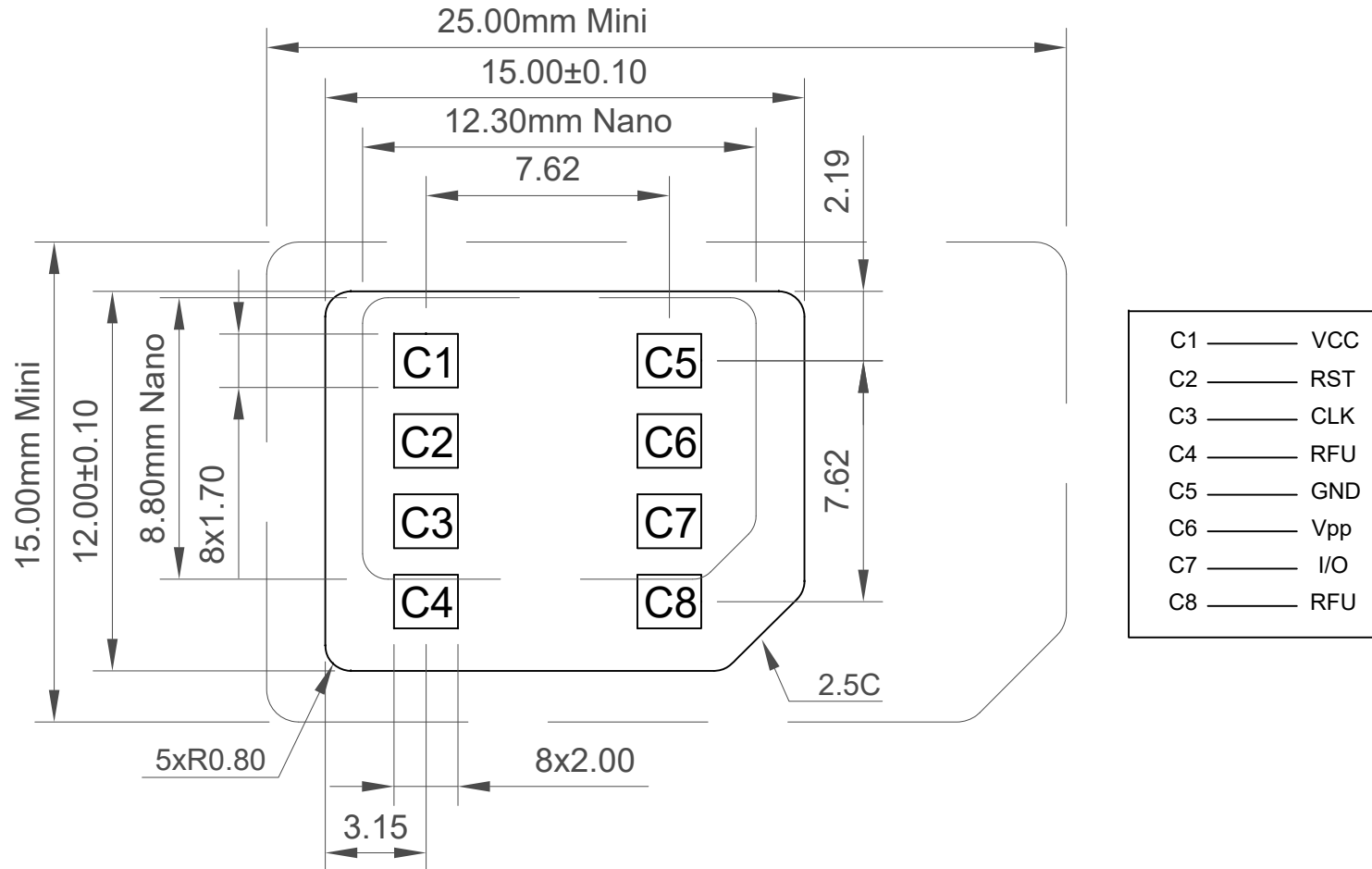
SIM7100	X	1	15	00	A	Request Samples and Quotation
No. of Contacts						Packing Options
6 or 8						A = Tape & Reel
Switch						(1,000 per reel)
1 = With (normally closed)						Locating Peg
Profile Height						00 = Without
15 = 1.50mm						

Part Number		Product Description				 www.gct.co	Not to Scale	Drawn By AJO	Sheet No. 1/3
SIM7100		Micro SIM Card Connector - Push-Push Type							
Drawing Date		6 or 8 Pin, SMT, 1.50mm Profile							
12th September 2014									
By	CC	Tolerances (Except as Noted)		Units:	 This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E & OE				
Detail	SIM7100 C PCN	Angle		Metric (mm)					
		X, ± 0.35	X°, ± 5°						
		X.X ± 0.25	X°, ± 4°						
		X.XX ± 0.15	X.XX° ± 3°						
Revision	C2								
Date	15/06/21	X.XXX ± 0.10		X.XXX° ± 2°					

GCT
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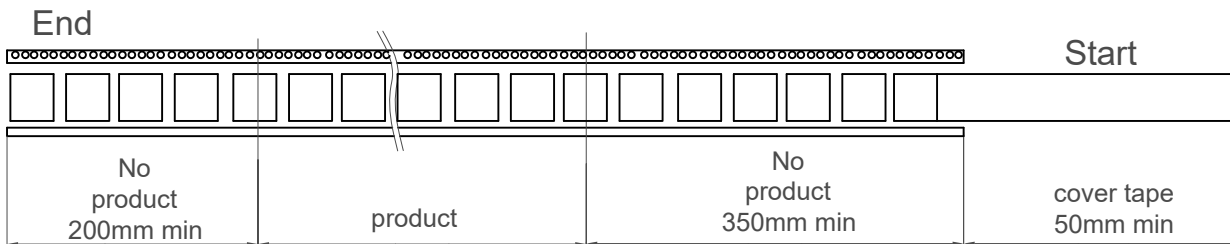
Micro SIM Reference

thickness = 0.76 ± 0.08

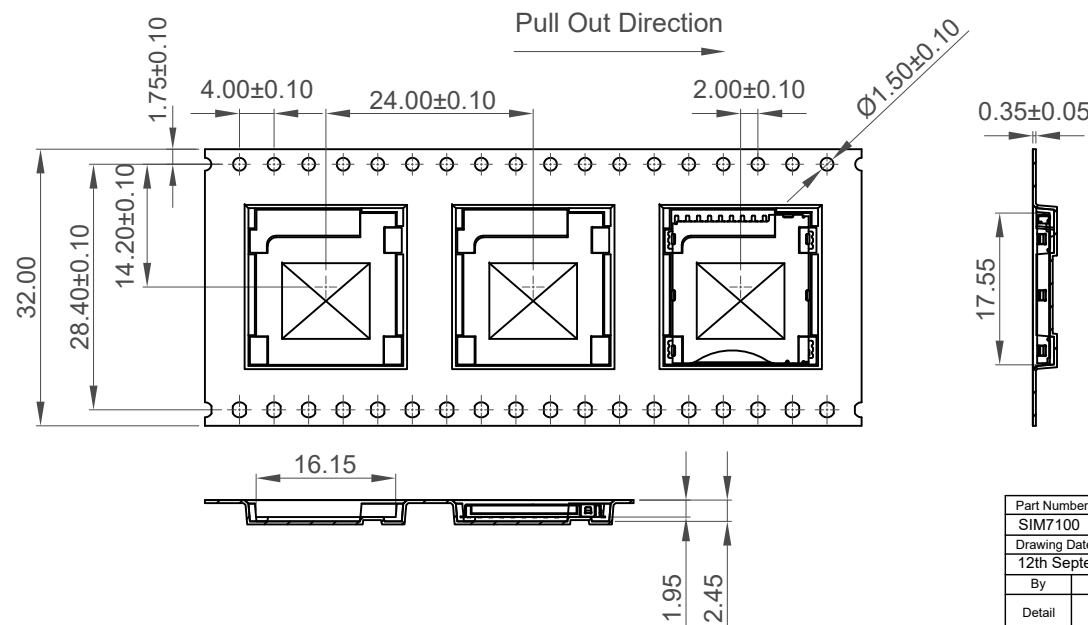
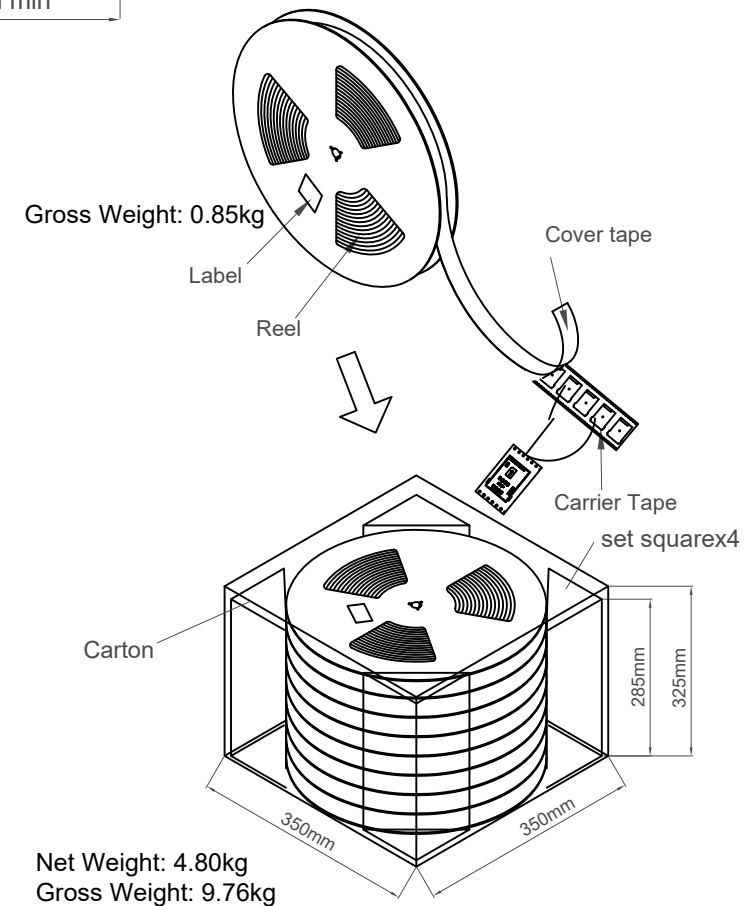
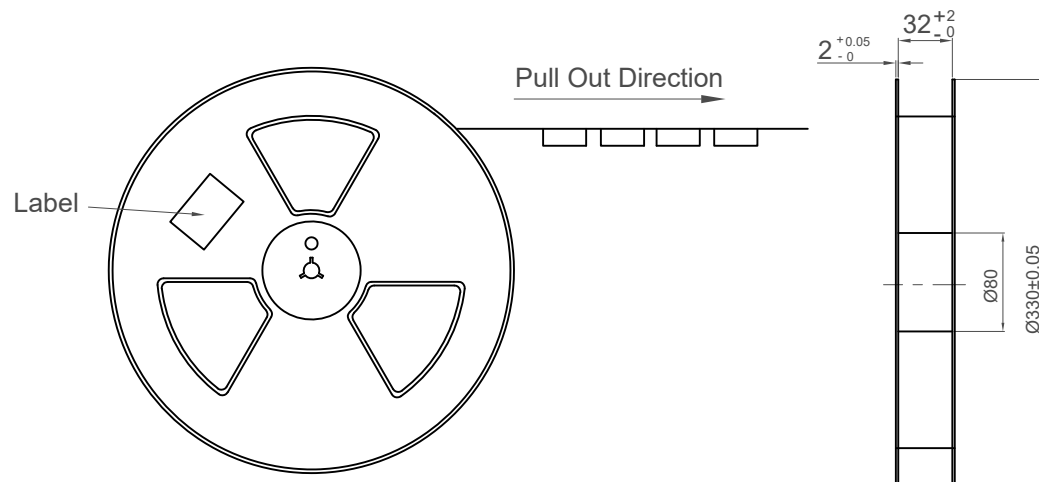


Part Number		Product Description	
SIM7100		Micro SIM Card Connector - Push-Push Type	
Drawing Date		6 or 8 Pin, SMT, 1.50mm Profile	
12th September 2014			
By	CC	Tolerances (Except as Noted)	Units:
Detail	SIM7100 C PCN	Length X. ± 0.35 X.X ± 0.25 X.XX ± 0.15 X.XXX ± 0.10	Metric (mm)
Revision	C2	Angle X.° ± 5° X.X° ± 4° X.XX° ± 3° X.XXX° ± 2°	
Date	15/06/21		
		3rd Angle Projection	
		RoHS COMPLIANT 2011/65/EU	
		This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E & OE	
		Not to Scale	Drawn By AJO
			Sheet No. 2/3

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Products P/N	PCS/Reel	Reels/Carton	PCS/Carton
SIM7100	1000	8	8000



Part Number		Product Description	
SIM7100		Micro SIM Card Connector - Push-Push Type	
Drawing Date		6 or 8 Pin, SMT, 1.50mm Profile	
12th September 2014			
By	CC	Tolerances (Except as Noted)	Units:
Detail	SIM7100	Length	Metric (mm)
	C PCN	Angle	
Revision	C2		
Date	15/06/21		



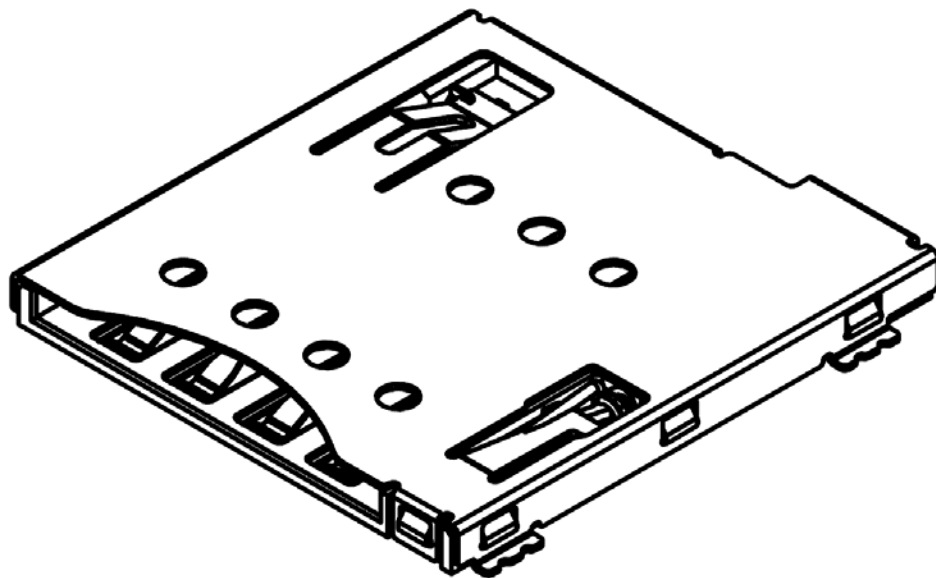
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Drawn By AJO
Sheet No. 3/3

PRODUCT SPECIFICATION

Part Number	SIM7100	Rev	C	Date	17/12/19		
Product Description	Micro SIM Card Connector, Push-Push, 6 or 8 Pin, SMT, 1.5mm Profile, With Card Detection Switch			Page	1		
Doc Number	SIM7100	Prepared	CC	Checked	VJ	Approved	PH



PRODUCT SPECIFICATION

Part Number	SIM7100	Rev	C	Date	17/12/19
Product Description	Micro SIM Card Connector, Push-Push, 6 or 8 Pin, SMT, 1.5mm Profile, With Card Detection Switch				Page 2
Doc Number	SIM7100	Prepared	CC	Checked	VJ Approved PH

1.0 SCOPE.

This specification covers performance, tests and quality requirements for the Micro SIM Card Connector SIM 7100 (Push-Push Type, 6 or 8 Pin, SMT, 1.5mm Profile).

2.0 PRODUCT NAME AND PART NUMBER.

Micro SIM Card Connector, 6 or 8 Pin, Push-Push Type: SIM7100.

3.0 PRODUCT SHAPE, DIMENSIONS AND MATERIAL.

Please refer to drawings.

4.0 RATINGS.

Current rating 1.0 Amp Max.
Voltage rating 50 Volts DC Max.
Operating Temperature Range -40°C to +85°C
Storage Temperature -40°C to +85°C

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.

PRODUCT SPECIFICATION

Part Number	SIM7100	Rev	C	Date	17/12/19		
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Doc Number	SIM7100	Prepared	CC	Checked	VJ	Approved	PH

6.1 Electrical Performance.

Item	Test Condition	Requirement
Contact Resistance	Mate connector, measure and record contact resistance using test a current of 10mA max and 20mV open circuit voltage, in accordance with IEC 60512-2-1.	Signal: 100 mΩ Max. Switch: 300 mΩ Max
Insulation Resistance	Apply 500Volts DC between adjacent contacts of unmated connector for one minute, in accordance with IEC 60512-3-1.	1000 MΩ minimum
Dielectric Strength	Unmated connector with 500 VAC for 1 minute between adjacent contacts, in accordance with IEC 60512-3-1.	No creeping discharge or flash over.

6.2 Mechanical Performance.

Item	Test Condition	Requirement
Durability	The SIM card should be mated and unmated for 1500 cycles at a rate of 500 cycles/ hour.	No evidence of physical damage. Contact Resistance Signal: 100 mΩ Max. Switch: 300 mΩ Max at end of test
Vibration(Random)	Frequency: 10 -100 Hz ,0.0132g2/Hz ; 100 - 500Hz, -3dB/Oct. Applied for 1 hour in each 3 mutually perpendicular axes In accordance with IEC60068-2-64Fh.	No evidence of physical damage Contact Resistance Signal: 100 mΩ Max. Switch: 300 mΩ Max at end of test Current discontinuity $\leq 1 \mu s$
Mechanical Shock	Pulse shape=half sine Peak acceleration =50G Duration of pulse=11ms Apply 3 shocks in each direction along the 3 mutually perpendicular axes (18 shocks). In accordance with IEC60068-2-27Ea.	No evidence of physical damage Contact Resistance Signal: 100 mΩ Max. Switch: 300 mΩ Max at end of test Current discontinuity $\leq 1 \mu s$

PRODUCT SPECIFICATION

Part Number	SIM7100	Rev	C	Date	17/12/19		
Product Description	Micro SIM Card Connector, Push-Push, 6 or 8 Pin, SMT, 1.5mm Profile, With Card Detection Switch			Page	4		
Doc Number	SIM7100	Prepared	CC	Checked	VJ	Approved	PH

6.3 Environmental Performance and Others.

Item	Test Condition	Requirement
Thermal Shock	The card shall be mated and exposed to the following condition for 25 cycle at $T_a = -40^{\circ}\text{C}$ for 0.5 hours; change of temp= 25°C maximum 5min; then $T_b = +85^{\circ}\text{C}$ for 0.5 hours; cool to ambient. In accordance with IEC60068-2-14.	No evidence of physical damage, Contact Resistance Signal: 100 m Ω Max. Switch: 300 m Ω Max
Humidity Test	The card shall be mated and exposed to temperature of $40 \pm 2^{\circ}\text{C}$ with 90-95% RH for 500 hours then place in ambient temperature for 1 to 2 hrs. In accordance with IEC60068-2-3.	No evidence of physical damage, Contact Resistance Signal: 100 m Ω Max. Switch: 300 m Ω Max Insulation resistance $\geq 1000 \text{ M}\Omega$ Dielectric: No creeping discharge or flash over.
Salt mist	$5 \pm 1\%$ salt concentration 24 hours $35 \pm 2^{\circ}\text{C}$. In accordance with IEC60068-2-11.	No rust on contact area Contact Resistance Signal: 100 m Ω Max. Switch: 300 m Ω Max
Temperature Life (High)	$85 \pm 2^{\circ}\text{C}$ for 96 hours. Recovery time 1-2 hours under ambient conditions. In accordance with IEC60068-2-2Bb.	No evidence of physical damage, Contact Resistance Signal: 100 m Ω Max. Switch: 300 m Ω Max
Temperature Life (Low)	$-40 \pm 3^{\circ}\text{C}$ for 96 hours. Recovery time 1-2 hours under ambient conditions. In accordance with IEC60068-2-1Ab	No evidence of physical damage, Contact Resistance Signal: 100 m Ω Max. Switch: 300 m Ω Max
Temperature Rise	Apply test current of loaded rating and measure the temperature rise of contact when rated current is passed. In accordance with EIA-364-70 Method 1.	30 $^{\circ}\text{C}$ Max.
Solderability	Dip solders tails into molten solder up to a depth of 0.5mm, held at a temperature of $250 \pm 5^{\circ}\text{C}$ for 3 ± 0.5 second.	95% of immersed area must show no voids of pin holes.
Resistance to Reflow Soldering Heat.	Mount connector, place in reflow oven and expose to the temperature profile with peak temperature of 250°C for 15seconds. See Fig. 1.	No evidence of physical damage or abnormalities adversely affecting performance

PRODUCT SPECIFICATION

Part Number	SIM7100	Rev	C	Date	17/12/19
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Doc Number	SIM7100	Prepared	CC	Checked VJ	Approved PH

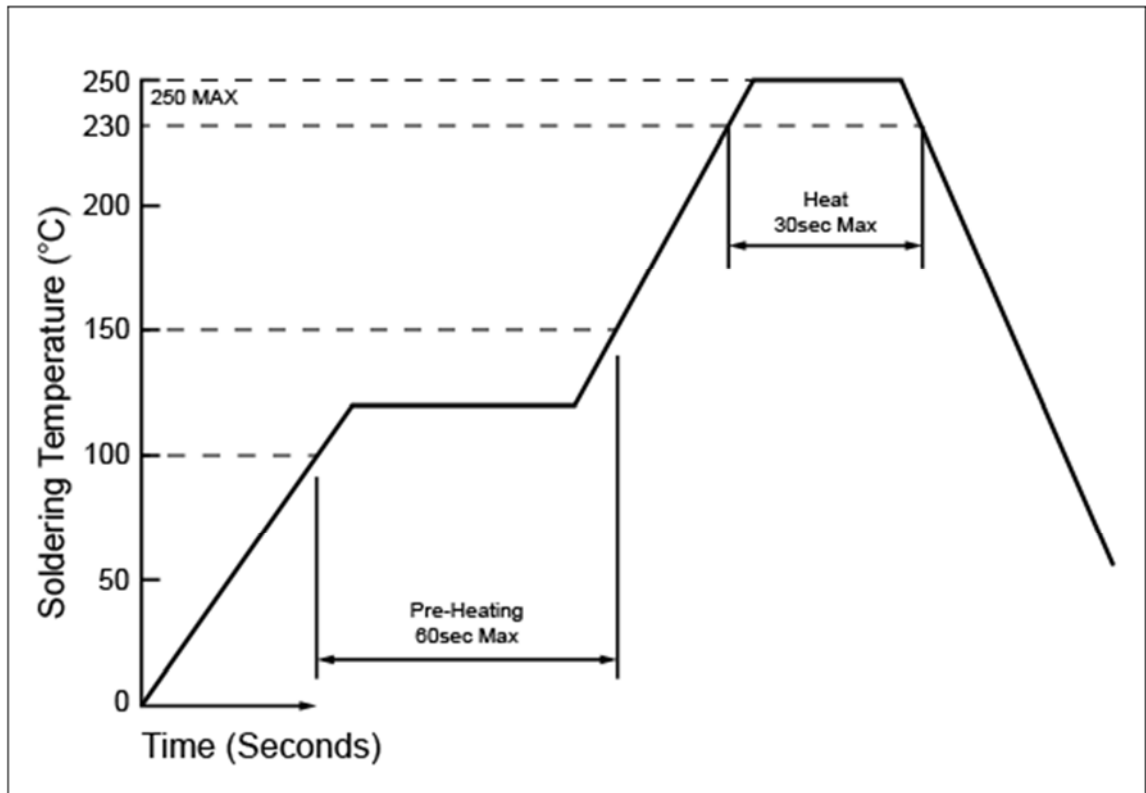


Fig. 1. Recommended Reflow Temp. Profile

PRODUCT SPECIFICATION

Part Number	SIM7100	Rev	C	Date	17/12/19		
Product Description	Micro SIM Card Connector, Push-Push, 6 or 8 Pin, SMT, 1.5mm Profile, With Card Detection Switch			Page	6		
Doc Number	SIM7100	Prepared	CC	Checked	VJ	Approved	PH

7.0 PRODUCT QUALIFICATION AND TEST SEQUENCE

Test Item	Group									
	A	B	C	D	E	F	G	H	I	J
Examination of Product	1,5	1,5	1,5	1,5	1,9	1,6	1,3	1,3	1,9	1,3
Contact Resistance	2,4	2,4	2,4	2,4	2,6	2,5			2,6	
Insulation Resistance					3,7				3,7	
Dielectric Withstanding					4,8				4,8	
Durability					5					
Vibration(random)						3				
Mechanical Shock						4				
Thermal Shock	3									
Humidity									5	
Salt mist		3								
Temperature Life (High)				3						
Temperature Life (Low)			3							
Temperature Rise								2		
Solderability							2			
Resistance to Reflow Soldering Heat.										2
Sample QTY.	5	5	5	5	5	5	5	5	5	5

PRODUCT SPECIFICATION

Part Number	SIM7100	Rev	C	Date	17/12/19		
Product Description	Micro SIM Card Connector, Push-Push, 6 or 8 Pin, SMT, 1.5mm Profile, With Card Detection Switch			Page	7		
Doc Number	SIM7100	Prepared	CC	Checked	VJ	Approved	PH

Revision details

Revision	Information	Page	Release Date
A	Specification Released	-	05/09/2014
B	Update the 3D image on the cover page	1	18/04/2018
C	Update the 3D image on the cover page	1	17/12/2019