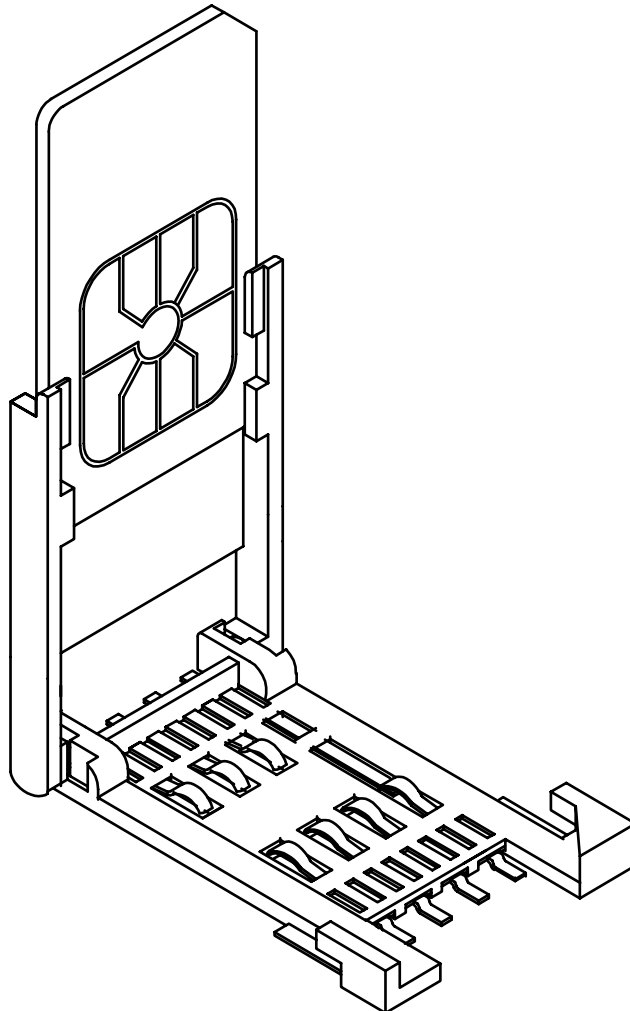


GradConn Part No.: CH03-BH060-A

Product Description: SIM Card Connector - Flip Type, 6 Contacts,  
with card detection switch, SMT, optional locating peg



## 1. General Information

- 1.1. Contact Principle: Friction Technology
- 1.2. Mounting type: SMT
- 1.3. Durability: 5,000 Cycles min.
- 1.4. Material:
  - 1.4.1. Data Contact: Phosphor Bronze
  - 1.4.2. Insulation: Hi Temp, Plastic (UL 94V-0)
- 1.5. Plating:
  - 1.5.1. Gold Plating On Contact Area
  - 1.5.2. Tin Plating On Soldering Tail

## 2. Electrical & Mechanical

- 2.1. Current Rating: 0.5A max.
- 2.2. Contact Resistance: 50 mΩ max.
- 2.3. Insulator Resistance: 1000 MΩ min.
- 2.4. Dielectric Withstanding Voltage: 500V AC RMS for 1 minute
- 2.5. Contact Force: 0.2N ~ 0.6N per pin
- 2.6. Contact Retention Force: 0.3kgF min.

## 3. Environmental

- 3.1. Operating Temperature: -25°C ~ +85°C
- 3.2. Operation Humidity: 20% ~ 95%

## 4. Solderability

- 4.1. Manual Soldering: 360°C, 3 Sec. max.
- 4.2. Vapor Phase: 215°C, 30 Sec. max.
- 4.3. IR Re-flow: 260°C, 15 Sec. max.

## 5. Pin Out Information

Contact No.	Assignment	Description	Remark
C1	VCC	Power Voltage	
C2	RST	Reset Signal	
C3	CLK	Clocking Signal	
C4		Reserved for future use	Optional
C5	GND	Power & Signal Ground	
C6	VPP	Programming Voltage	
C7	I/O	Serial Data Input/Output	
C8		Reserved for future use	Optional

## 6. Testing Standard

### 6.1. Electrical Performance

Item	Requirement	Definition	Test Condition	Test Procedure	Equipment
Contact Resistance	50 mΩ max. per contact	Connection between contact of SIM card and connector	Subject mated contacts assembled in housing to 20mV max. open circuit at 100 mA max.	EIA-364-06B	Micro Ohms tester
Insulation Resistance	1000 MΩ min.	Performance of insulation between contacts	500V DC for 1 minute between adjacent contacts and insulators	EIA-364-21C	Insulation resistance tester
Dielectric Withstand Voltage	No break down flash over 1.0 mA max. leakage	Strength of insulation between contacts, without breakdown	500V AC RMS for 1 minute between adjacent contacts and ground	EIA-364-20B	Dielectric withstand voltage tester

### 6.2. Electrical Performance

Item	Requirement	Test Condition	Test Procedure	Equipment
Vibration	1. Discontinuity <1μ second 2. No Damage.	Frequency 10-50-10 Hz Acceleration 10G peak Amplitude 1.5mm X, Y, Z Per direction 2H	EIA-364-23D	Vibration test machine
Durability	1. Contact resistance <20 mΩ 2. Normal contact force redaction <20%	5000 cycles of rate 10 cycles to 1 minute	EIA-364-09C	Durability tester
Contact Force	0.2N~0.6N/Pin	Fix the connector horizontal testing reacting force of the individual contact while adding a 0.35mm vertical displacement load on the contact point	EIA-364-04A	Contact normal force tester
Contact Retention Force	0.3kgF min.	Shall be measured TENSION GAUGE of TENSION TESTER in same direction at speed rate of 25.4mm/min	EIA-364-29B	Force tester

### 6.3. Solderability

Item	Requirement	Definition	Test Condition	Test Procedure	Equipment
Solderability	1. The surfact shall be covered with enough solder 2. No damage	Manual Soldering	360°C for 3 seconds max.	EIA-364-52A	Iron
		Vapor Phase	215°C for 30 seconds max.		Vapor phase tester
		IR Reflow	260°C for 15 seconds max.		IR Reflow solder