

# SMA Specifications

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## 1. Description:

The Connector is Reverse SMA join on the Antenna

## 2. Electrical Properties

|  |   |
|--|---|
| 2-1 Impedance.....                       | 50 Ohms   |
| 2-2 Frequency Range.....                 | 0~8 Ghz   |
| 2-3 SWR.....                             | 1.1 (Max.)  |
| 2-4 Working Voltage.....                 | ≤250 Vrms   |
| 2-5 Dielectric Withstanding Voltage..... | ≤750 Vrms   |
| 2-6 Insulation Resistance.....           | ≥2000 Megohms   |
| 2-7 Contact Resistance.....              | Center contact: 3.0 Milliohms (Max.)<br>Outer contact: 2.5 Milliohms (Max.) |
| 2-8 Insertion Loss.....                  | 0.2 dB  |

## 3. Mechanical Properties :

|                                       |                         |
|---------------------------------------|-------------------------|
| 3-1 Recommended coupling nut torque.. | 4.0 in.lbs.~8.8 in.lbs. |
| 3-2 Coupling nut retention force..... | ≥50 lbs.                |
| 3-3 Contact captivation axial.....    | ≥5 lbs.                 |

## 4. Environmental Ratings

|                                |                                      |
|--------------------------------|--------------------------------------|
| 4-1 Operating Temperature..... | -65°C ~ +165°C                       |
| 4-2 Thermal Shock.....         | MIL-STD-202, Method 107, Condition B |
| 4-3 Corrosion.....             | MIL-STD-202, Method 101, Condition B |
| 4-4 Shock.....                 | MIL-STD-202, Method 213, Condition I |
| 4-5 Vibration.....             | MIL-STD-202, Method 204, Condition D |
| 4-6 Moisture Resistance.....   | MIL-STD-202, Method 106              |

## 5. Material Specifications

|                    |   |
|--------------------|---|
| 5-1 Body.....      | Brass Per JIS H3250 C3604 BD, Gold Plated<br>Per MIL-G-45204  |
| 5-2 Contact.....   | Beryllium Copper Per QQ-C-530, Gold Plated<br>Per MIL-G-45204 |
| 5-3 Insulator..... | PTFE Fluorocarbon Per ASTM D 1710                             |

## **Electrical Properties**

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**Frequency Range: 5.2~5.8GHz**

**Impedance: 50 Ohm nominal**

**V.S.W.R :  $\leq 2.0$**

**Gain: 2dBi**

**Radiation: Omni**

**Polarization: Vertical**

**Electrical Wave:  $\lambda/4$  Dipole**

**Connector: SMA MALE**

## **Mechanical Properties**

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**Antenna Cover: PU**

**Color : BLACK**

**Operation Temperature:-20°C~+60°C**

**Storage Temperature:-30°C~+75°C**

