*SSMC*

## INTRODUCTION

SSMC connectors are about a third smaller than SMC. They are mainly used in avionics, missiles, and any limited-space applications that require the security of a threaded coupling.

### GENERAL

- DC - 12 GHz
- Impedance 50Ω
- Screw-on coupling
- Micro-miniature connectors
- Very low weight and small size

### APPLICABLE STANDARDS

- MIL STD 348A
- IEC 60169-20
- MIL-PRF-39012

### APPLICATIONS

- Civil avionics
- Military aerospace, missiles

## CHARACTERISTICS

| TEST / CHARACTERISTICS | VALUES / REMARKS | |
|---|---|---|
| **GENERAL** | | |
| **Impedance** | 50Ω | |
| **Frequency Range** | DC - 12.4 GHz | |
| **Temperature Range** | -65 °C to + 165 °C | |
| **ELECTRICAL CHARACTERISTICS** | | |
| **Insertion Loss in dB** | 0.3√F (GHz) | |
| **RF Leakage** | < -55 dB at 1 GHz | |
| **VSWR max up to 4 GHz** | RG 178 cable: 1.20 + 0.02F (GHz) | |
| **Contact Resistance (Inner Contact)** | Center Contact: 5mΩ max. Outer Contact: 1mΩ max. | |
| **Insulation Resistance** | 1000MΩ | |
| **Voltage in VRMS**<br>**• At Sea Level**<br>**• At 70,000 ft** | Dielectric Withstanding Voltage<br>> 500V<br>100V | Working Voltage<br>< 250V<br>60V |
| **MECHANICAL CHARACTERISTICS** | | |
| **Cable Retention Force** | RG174: 50N - RG316: 100N | |
| **Mating Endurance** | 500 | |
| **Center Contact Retention Force** | ≥ 8 N | |
| **ENVIRONMENTAL CHARACTERISTICS** | | |
| **Vibration** | MIL-STD-202, Method 204, Condition D (20g) | |
| **Shock** | MIL-STD-202, Method 213, Condition B, 75g-6ms 1/2 sinus | |
| **Corrosion (Salt Mist)** | MIL-STD-202, Method 101, Condition B (48h) | |

### MATERIALS AND PLATING

| | Material | Plating |
|---|---|---|
| **Body** | Brass | Gold |
| **Contacts** | Beryllium Copper | Gold |
| **Insulators** | PTFE | - |