



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 • At Sea Level • At 70,000 ft	Dielectric Withstanding Voltage > 500V 100V
	Working Voltage < 250V 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	-