

SMP Connector Specifications

Electrical

Impedance	50 Ohm
Frequency Range	DC-26.5 GHz extended performance to 40 GHz
VSWR	
DC-18 GHz	1.2 max
18-26.5 GHz	1.3 max
26.5-40 GHz	1.7 max
Contact Resistance	
Center Contact	$\leq 6 \text{ m}\Omega$
Outer Contact	$\leq 2 \text{ m}\Omega$
Voltage Rating (Sea Level)	$\geq 500 \text{ VRMS}$ (depending on cable)
Insulation Resistance	5000 $\text{M}\Omega$ min

Environmental

Temperature Range	-65°C to +165°C
Thermal Shock	MIL-STD-202, Method 107, cond. C
Vibration	MIL-STD-202, Method 204, cond. B
Mechanical Shock	MIL-STD-202, Method 213, cond. B
Humidity	MIL-STD-202, Method 106, cond. D

Mechanical

Mating	MIL-STD-348
Engagement Force	$\leq 15.0 \text{ lbs}$ (40 N)
Disengagement Force	$\leq 0.5 \text{ lbs}$ (2N)
Durability (Matings)	100 cycles min

