

GENERAL SPECIFICATION FOR COAXIAL RF CONNECTOR SERIES QMA 50 OHMS



Refer to applicable SMA series standards for all other data not specified below

ELECTRICAL	REQUIREMENTS
Impedance	50 Ohms
Frequency	DC to 18 GHz
Dielectric Withstanding Voltage	1000 V RMS 50 Hz, sea level
Working Voltage	≤ 480 V RMS 50 Hz, sea level
Insulation Resistance	5 x10 ³ MΩ min. (initial)
Power Handling	150 W @ 2.5 GHz typical
Contact Resistance centre contact outer contact	3.0 mΩ max. (initial) 2.5 mΩ max. (initial)
Passive Intermodulation	-120 dBc @ 1.8 GHz 2x 20 W static
Screening Effectiveness DC to 3 GHz 3 to 6 GHz	-80 dB min. -70 dB min.

MECHANICAL	REQUIREMENTS
Mating Characteristics Engagement Force Disengagement Force	25 N typical 20 N typical
Interface Retention Force	60 N min.
Durability	100 mating cycles min.
Connector pitch	12.4 mm min. center to center

ENVIRONMENTAL	REQUIREMENTS
Temperature Range	- 40°C to + 85°C
Thermal Shock	IEC 60169-1 16.4 (-40° C / + 85° C)
Corrosion	IEC 60169-1 16.7 (48 hrs)
Damp Heat	IEC 60169-1 16.3 (96 hrs) steady state
Vibration	IEC-68-2-64 random 5-20 Hz: 1.29 (m/s ²) ² /Hz 20-500 Hz: -3dB/octave

The QMA design is patented US 6,692,286 ; EP 1 222 717 ; EP 1 094 565