

# QMA Connector Specifications

## Electrical

Impedance	50 Ohms
Frequency Range	DC-18 GHz
Screening Effectiveness	
DC-3 GHz	-80 dB min
3-6 GHz	-70 dB min
Contact Resistance	
Center Contact	2.5 mΩ max (initial)
Outer Contact	3.0 mΩ max (initial)
Passive Intermodulation	-120 dBc @ 1.8 GHz 2x 20W static
Insulation Resistance	5x10 <sup>3</sup> MΩ min (initial)
Power Handling	150 W @ 2.5 GHz typical
Dielectric Withstanding Voltage (Sea Level)	1000 VRMS 50 Hz
Working Voltage (Sea Level)	≤ 480 VRMS 50 Hz

## Environmental

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 <sup>2</sup> ) <sup>2</sup> /Hz
20-500 Hz	-3dB/octave

## Mechanical

Interface Retention Force	60 N min
Durability (Matings)	100 mating cycles min
Connector Pitch	12.4 mm min center to center
Engagement Force	25 N typical
Disengagement Force	20 N typical

