

## GENERAL SPECIFICATION FOR COAXIAL RF CONNECTOR SERIES QN 50 OHMS



<b>ELECTRICAL</b>	<b>REQUIREMENTS</b>
Impedance	50 Ohms
Frequency	DC to 11 GHz
Dielectric Withstanding Voltage	2500 V RMS 50 Hz, sea level
Working Voltage	≤ 1000 V RMS 50 Hz, sea level
Insulation Resistance	5 x 10 <sup>3</sup> MΩ min.
Power Handling	300 W @ 2.5 GHz typical
Contact Resistance centre contact outer contact	1.5 mΩ max. (initial) 1.5 mΩ max. (initial)
Passive Intermodulation	-155 dBc @ 1.8 GHz (2x 43 dBm carrier)
Screening Effectiveness 100 MHz to 3 GHz	-90 dB min.

<b>MECHANICAL</b>	<b>REQUIREMENTS</b>
Mating Characteristics Engagement Force Disengagement Force	30 N typical 30 N typical
Interface Retention Force	450 N min.
Durability	100 mating cycles min.
Connector pitch	20 mm min. center to center

<b>ENVIRONMENTAL</b>	<b>REQUIREMENTS</b>
Temperature Range	- 40°C to + 125°C
Climatic Category	IEC 60169 1 16.2 40 / 125 / 21
Rapid temperature change	IEC 60169-1 16.4 (-40° C / + 125° C)
Corrosion	Saltspray test acc. to MIL-STD-202 F, Method 101 D, Condition B
Moisture resistance	MIL-STD-202 F, Method 106 F
Vibration	IEC-1169-1 paragraph 9.3.3 (10-500 Hz ; 5g)
Dust & Moisture protection IP Rating interface	IEC 60529 IP68

The QN design is patented US 6,709,289 ; US 6,646,011 ; EP 1 282 202 ; EP 1 337 008 ; FR 2 828 202