



QMA

CHARACTERISTICS

TEST / CHARACTERISTICS	VALUES / REMARKS
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ELECTRICAL CHARACTERISTICS

Impedance	50Ω
Frequency Range	DC - 6 GHz (Optimized) DC - 18 GHz (Working Range)
Typical V.S.W.R. • DC - 3 GHz • 3 GHz - 6 GHz	1.06 1.12
Max Insertion Loss	0.25 dB
Insulation Resistance	5000 MΩ
Voltage Rating	≤ 500 V RMS 50 Hz, Sea Level
Dielectric Withstanding Voltage	1500 V RMS 50 Hz, Sea Level
Contact Resistance • Center Contact • Outer Contact	< 3 mΩ < 2.5 mΩ
Admissible Power @ 2.5 GHz (Continuous Power)	125 W @ T = 40°C (150 W @ T = 23°C)
Passive Intermodulation	-120 dBc @ 1.8 GHz (2x20W) (static)
RF Leakage • DC - 3 GHz • 3 - 6 GHz	-80 dB min -70 dB min

MECHANICAL CHARACTERISTICS

Mechanical Endurance	100 Matings
Engagement and Disengagement Force • Engagement • Disengagement	25 N 20 N
Retention Force for Interface	> 60 N
Cable Retention Force • 2.6 / 50 S • 2.6 / 50 D • 5 / 50 S • 5 / 50 D • 5.7 / 50 D	90 N 110 N 180 N 200 N 220 N
Distance Between Connectors: c. to c.	12.4 mm min.
Vibration	40 m.s ⁻² at 500 Hz

ENVIRONMENTAL CHARACTERISTICS

Temperature Range	-40 °C, +105 °C
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MATERIALS

Connector Dodies	Brass
Male Center Contact	Brass
Female Center Contact	Beryllium Copper
Outer Contact	Bronze
Other Metallic Parts	Brass
Insulators	PTFE

PLATING

Bodies	BBR
Solder Bodies	BBR
SMT Bodies	NPGR
Outer Contacts	BBR
Center Contacts	NPGR

All dimensions are given in mm.