QMA

CHARACTERISTICS

TEST / CHARACTERISTICS	VALUES / REMARKS
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 Withstanting 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
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.