MCX

CHARACTERISTICS

TEST / CHARACTERISTICS	VALUES / REMARKS

ELECTRICAL CHARACTERISTICS

Impedance	50Ω and 75Ω		
Frequency Range	DC - 6 GHz		
Typical V.S.W.R. **• Straight styles: .085** **2.6/50/S** **• Sight angle styles: .085** **2.6/50/S**	1 GHz 1.04 1.06 1.03 1.04	2.5 GHz 1.08 1.09 1.06 1.07	6 GHz 1.13 1.12 1.10 1.10
Insulation Resistance	1,000 MΩ		
Contact Resistance (mΩ) **• Center Contact** **• Outer Contact**	Initial ≤ 5 ≤ 2.5	After Environment ≤ 15 ≤ 7.5	
Voltage Rating (V.R.M.R.) **• Cable RG 196/U - RG 188A/U - .047"** **• Ø 2.6 double screen** **• RG 405/U - .085**	At Sea Level 170 V rms max 335 V rms max 250 V rms max	At 70.000 Ft 45 V rms max 85 V rms max 65 V rms max	
Dielectric Withstanding Voltage **• Cable RG 196/U - RG 188A/U - .047"** **• Ø 2.6 double screen** **• RG 405/U - .085**	At Sea Level 500 V rms max 750 V rms max 750 V rms max	At 70.000 Ft 100 V rms max 100 V rms max 100 V rms max	
Power	P = 120W at 1.8 GHz, T = 40°C at sea level, VSWR = 1.1 for a straight plug MCX for [2.6/50/D cable		

MECHANICAL CHARACTERISTICS

Mechanical Endurance	500 Matings
Engagement **Separation Force**	≤ 14.2 lbs - 63 N max ≥ 1.8 Lbs - 8N ≤ 4.5 lbs 20 N
Cable Retention Force **• RG 196A/U** **• RG 188A/U** **• Ø 2.6/50 Ω double screen** **• .047"** **• RG 405/U-.085**	 ≥ 7.2 lbs - 32 N ≥ 11.9 lbs - 53 N ≥ 24.1 lbs - 107 N ≥ 9.7 lbs - 43 N ≥ 34.9 lbs - 155 N
Contact Captivation	Axial Force 2.25 Lbs 10 N

ENVIRONMENTAL CHARACTERISTICS

Operating Temperature	-55 °C +155 °C
Temperature Cycling	CECC 22220 Paragraph 4-6-5
Thermal Shocks	CECC 22220 Paragraph 4-6-7
High Temperature Test	CECC 22220 Paragraph 4-7-2
Corrosion (Salt Spray)	CECC 22220 Paragraph 4-6-10
Vibration	CECC 22220 Paragraph 4-6-3

MATERIALS AND PLATING

	Material	Plating
Bodies and Male Contacts	Brass	Gold / BBR (bodies)
Female Center Contact	Beryllium Copper	Gold
Ferrules	Brass	-
Insulators	PTFE	-

All dimensions are given in mm.
Standard packaging = 100 pieces