



Moebius

CHARACTERISTICS

TEST / CHARACTERISTICS	VALUES / REMARKS	
	Not Mated	Mated
Operating Temperature Range	-40 °C to + 110 °C	
Rated Power	10 W / 900 MHz	
DC Current Withstanding	1 A max	
Frequency Range	DC to 6 GHz	
V.S.W.R.	1.20 max DC to 3 GHz 1.50 max 3 to 6 GHz	1.15 max DC to 3 GHz 1.25 max 3 GHz to 6 GHz
Insertion Loss	0.15 dB max DC to 2 GHz 0.20 dB max 2 GHz to 3 GHz 0.40 dB max 3 GHz to 6 GHz	0.10 dB max DC to 2 GHz 0.15 dB max 2 GHz to 3 GHz 0.20 dB max 3 GHz to 6 GHz
Isolation Loss	- - -	35 dB minDC to 1 GHz 25 dB min 1 GHz to 3 GHz 25 dB min 3 GHz to 6 GHz

Item	Specification	Conditions
Contact Resistance	200 mΩ max	100 mA
Insulation Resistance	3000 MΩ min	250 V DC
Withstanding Voltage	No Flashover or Insulation Breakdown	250 V rms
Vibration	No Discontinuities > 1μs under 100mA	Sinus: 5-500Hz / Displacement 0.75 Peak / Acceleration 10 g Duration 2h in each Direction Random: 5-1000Hz / Displacement 0.75 Peak / Acceleration 3.3 g Duration 1h in each Direction 25 dB min 3 GHz to 6 GHz
Shock	No Discontinuities > 1μs under 100mA	Acceleration 50 g / Duration Pulse 11 ms / Waveform Pulse Half Sinus / Number of Shocks 3 per Direction
Free Fall	Center Contact Resistance RF Measurements No Discontinuities > 1 ms under 100mA	NFC 20732 Method 1 Test Area Concrete / Fall Height 1 m / Duration 2*2 falls
Temperature Life	Center Contact Resistance RF Measurements	T + 90 °C / Duration 1000 h / 40% HR
Thermal Shock	Center Contact Resistance RF Measurements	T - 40 °C to + 90°C Exposure 15mn / Transfer Time < 10 s / 100 Cycles
Damp Heat	Center Contact Resistance RF Measurements	40 °C / 93% / 21 days
Retention Force • Insertion Force - Mating • Extraction Force - Unmating	9N 12N	Initial
Durability	Mating - Unmating Force Center Contact Resistance RF Measurements	25,000 Cycles

MATERIALS AND PLATING

	Material	Plating
Body	Brass	NPGR
Center Contact		
Outer Contact		
Insulator	PTFE / NC	
Other Parts	Beryllium Copper	NPGR