



SMP-MAX

CHARACTERISTICS

TEST / CHARACTERISTICS	VALUES / REMARKS
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ELECTRICAL CHARACTERISTICS

Impedance	50Ω		
Frequency Range	DC - 6 GHz		
Typical V.S.W.R. (Board-to-Board Connection)	Misalignment	DC - 3 GHz	3-6 GHz
	Radial 0°, Axial 0 mm	< 1.15	< 1.25
	Radial 0°, Axial +/- 1 mm	< 1.20	< 1.35
	Radial 3°, Axial 0 mm	< 1.15	< 1.25
	Radial 3°, Axial +/- 1 mm	< 1.20	< 1.35
Insertion Loss (Board-to-Board Connection)	Misalignment	DC - 3 GHz	3-6 GHz
	Radial 0°, Axial 0 mm	0.10	0.15
	Radial 0°, Axial +/- 1 mm	0.12	0.25
	Radial 3°, Axial 0 mm	0.10	0.15
	Radial 3°, Axial +/- 1 mm	0.12	0.25
Insulation Resistance	5000 MΩ		
Center Contact Resistance	< 3 mΩ		
Outer Contact Resistance	< 1.5 mΩ		
Working Voltage	330 VRMS		
Dielectric Withstanding Voltage	1000 VRMS		
Power Handling (Typical)	> 300W @ 2.7 GHz, 25 °C > 200W @ 2.7 GHz, 85 °C		
RF Leakage	-70dB to 3 GHz, Axial Misalignment 0mm		

MECHANICAL CHARACTERISTICS

Mating Cycles	100 Cycles	
	Slide-On	Snap-On
Engagement Force	< 14 N	< 45 N
Disengagement Force	< 9 N	> 9, < 45 N
Center Contact Retention Force	> 7 N	
Minimum Distance between PCB	13 mm	
Radial Misalignment Tolerance	3° min	
Axial Misalignment Tolerance	2.0 mm Larger Axial Misalignment Version Available	

ENVIRONMENTAL CHARACTERISTICS

Temperature Range	-55 °C / +165 °C
Thermal Shock	MIL-STD-202, Method 107, Condition B
Vibration	MIL-STD-202, Method 204, Condition B
Shock	MIL-STD-202, Method 213, Condition A
Corrosion Salt Spray	MIL-STD-202, Method 101, Condition B
Moisture Resistance	MIL-STD-202, Method 106

MATERIALS

Body	Brass / Beryllium Copper
Male Center Contact	Brass
Female Center Contact	Beryllium Copper
Gasket	Silicon Rubber
Insulator	PTFE / PEEK

PLATING

Body	NPGR / BBR
Male Center Contact	NPGR
Female Center Contact	NPGR

Notes

Standard packaging = 100 pieces box / 500 pieces reel.
All dimensions are given in mm.