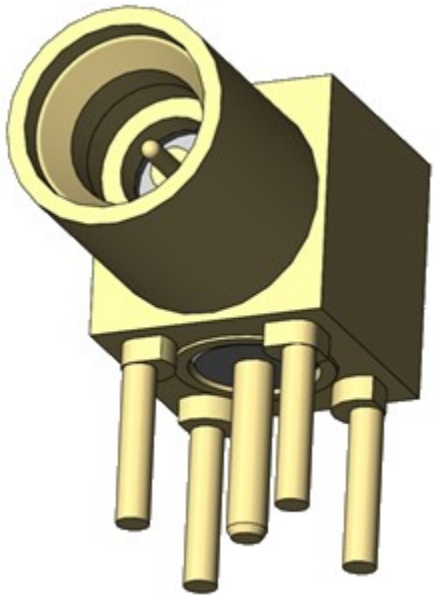
Series: SMPM Male Right Angle Through Hole, 50 Ω



Part Number: SMPM-PX-P-HF-RA-TH-1

GENDER
-PF: PLUG FULL DETENT
-PS: PLUG SMOOTH BORE

MATERIAL AND FINISHES

Connector part	Material	Finish
Shell	Beryllium Copper	50µ" Gold over Nickel
Bushing	Beryllium Copper	10µ" Gold over Nickel
Pin	Beryllium Copper	30µ" Gold over Nickel
Insulator	PTFE	N/A
Locking Ring	Beryllium Copper	3µ" Gold over Nickel

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ELECTRICAL DATA

Impedance	50 Ohm
Frequency Range	DC to 32 GHz
VSWR[1]	DC to 32 GHz: 1.80:1 max
Insertion Loss[1]	$0.05\ x\ \sqrt{F(GHz)}\ dB\ max$
Center Contact Resistance	<6.0 mΩ
Insulation Resistance	5,000 MΩ Min
Outer Contact Resistance	<2.0 mΩ
Voltage Rating (Sea Level)	240 VRMS Max
Dielectric Withstanding Voltage (DWV)	700 VRMS Min

[1] per connector including launch

MECHANICAL DATA

Interface	I.A.W. MIL-STD-348 fig's. 328-X
Mating Cycles	Full Detent: 100 Cycles Smooth Bore: 500 Cycles
Engagement Force	Full Detent: 35 N (8 lbs.) Max Smooth Bore: 18 N (4 lbs.) Max
Disengagement Force	Full Detent: 13 N (3 lbs.) Min Smooth Bore: 2 N (0.5 lbs.) Min
Center Contact Retention	17.8 N (4.0 lbs.) Min
Radial Misalignment	+/- 0.20 mm (0.010 In.) Max
Axial Misalignment	0.20 mm (0.010 In.) Max
Mass	0.34g (0.012 oz.)

ENVIRONMENTAL DATA

Temperature Range	-65 to 150°C
Thermal Shock	EIA-364-32, -55 to +125°C, 100 Cycles
Vibration	EIA-364-28, Condition V-B, 2 hrs./axis
Mechanical Shock	EIA-364-27, Condition G

REFERENCED DOCUMENTS

Interface	Drawing & Footprint
Full Detent	RA Full Detent Drawing
Smooth Bore	RA Smooth Bore Drawing

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USE OF PRODUCT SPECIFICATION SHEET

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