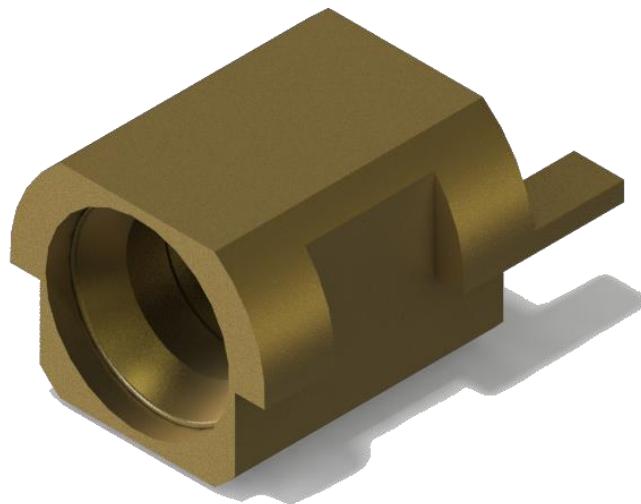


**Series:** SMPM, Plug, PCB Edge Mount, 50 Ω

Part Number: SMPM-PX-P-HG-ST-EM-1

INTERFACE  
-F: FULL DETENT  
-S: SMOOTH BORE

**MATERIAL AND FINISHES**

Connector part	Material	Finish
Shell	Beryllium Copper	3μ" Gold over Nickel
Bushing	Beryllium Copper	10μ" Gold over Nickel
Pin	Beryllium Copper	30μ" Gold over Nickel
Insulator	PEK	

**Series:** SMPM, Plug, PCB Edge Mount, 50 Ω**ELECTRICAL DATA**

Impedance	50 Ohm
Frequency Range <sup>1</sup>	DC to 67 GHz
VSWR <sup>1</sup>	DC to 26.5 GHz: 1.15:1 max 26.5 GHz to 40 GHz: 1.25:1 max 40 GHz to 67 GHz: 1.35:1 max
Insertion Loss <sup>1</sup>	$0.04\sqrt{F(\text{GHz})} \text{ dB max}$
Insulation Resistance	5000 MΩ Min
Center Contact Resistance	6.0 mΩ Max
Outer Contact Resistance	2.0 mΩ Max
Voltage Rating (Sea Level)	170 Vrms Max
DWV	500 Vrms Min

<sup>1</sup>per connector, when tested in pairs, back-to-back with a coaxial fixture**MECHANICAL DATA**

Mating Cycles	Full Detent: 100 cycles Smooth Bore: 500 cycles
Engagement Force	Full Detent: 8 lbs. Max Smooth Bore: 4 lbs. Max
Disengagement Force	Full Detent: 3 lbs. Min Smooth Bore: 0.5 lbs Min
Radial Misalignment	+/- 0.010"
Axial Misalignment	0.010" Max
Mass	0.22g

**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

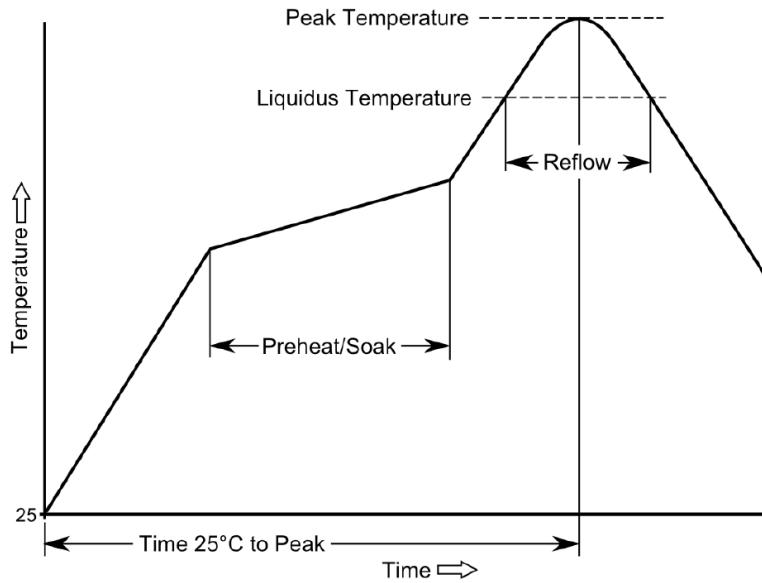
**REFERENCED DOCUMENTS**

Interface	Drawing & Footprint
Full Detent	<a href="#">Full Detent Drawing</a>
Smooth Bore	<a href="#">Smooth Bore Drawing</a>

**Series: SMPM, Plug, PCB Edge Mount, 50 Ω**

## PROCESSING RECOMMENDATIONS

Soldering Process	SMT/Reflow
Solder Thickness (Stencil)	0.005 inch
Process Parameters (Sn-PB)	Preheat/Soak: 60-120 secs, 100 °C – 150 °C Ramp-Up: 3 °C/second Max Reflow Time: 40-150 secs, >183 °C Peak Temp: 235 °C Dwell Time: 20 secs @ 235 ± 5°C Ramp-Down: 6 °C/second Max Start-to-Peak 6 mins Max
Process Parameters (PB-Free)	Preheat/Soak: 60-120 secs, 150 °C – 200 °C Ramp-Up: 3 °C/second Max Reflow Time: 40-150 secs, >217 °C Peak Temp: 260 °C Dwell Time: 30 secs @ 260 ± 5°C Ramp-Down: 6 °C/second Max Start-to-Peak 8 mins Max



### USE OF PRODUCT SPECIFICATION SHEET

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