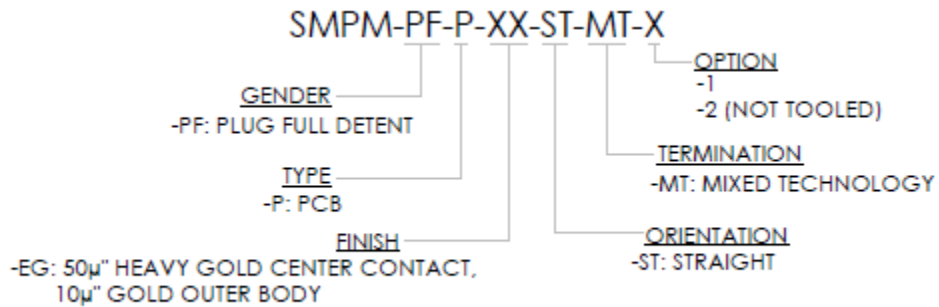
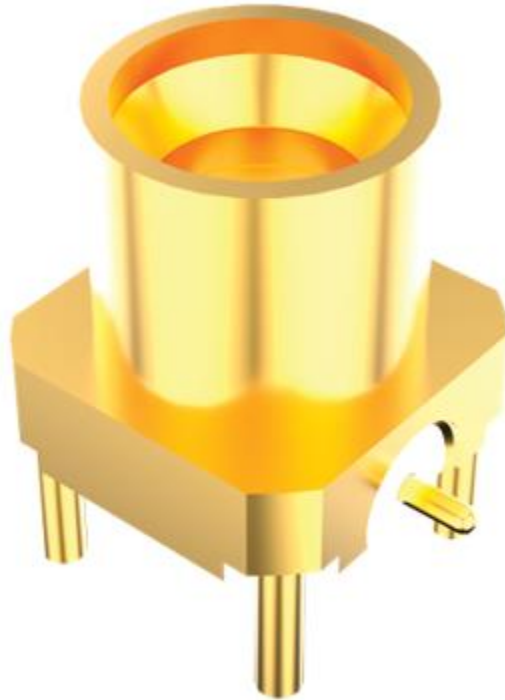


Series: SMPM, Plug, PCB Mixed Technology, 50 Ω



### MATERIAL AND FINISHES

Connector part	Material	Finish
Body	Brass	.254-.508 µm (10-20µ") Gold Over 1.27µm (50 µ") Min. Nickel
Bead(s)	PEEK	N/A
Contact	Beryllium Copper	1.27 µm (50µ") Min. Gold Over 1.27µm (50 µ") Min. Nickel

**Series:** SMPM, Plug, PCB Mixed Technology, 50 Ω

**ELECTRICAL DATA**

Impedance	50 Ohm
Frequency Range	DC to 60 GHz
VSWR <sup>1</sup>	DC to 26.5 GHz: 1.25:1 Typ. 26.5 GHz to 40 GHz: 1.35:1 Typ. 40 GHz to 60 GHz: 2:1 Typ.
Insertion Loss <sup>2</sup>	$0.045\sqrt{F(GHz)}$ dB Max.
Insulation Resistance	5000 MΩ Min.
Center Contact Resistance	8.0 mΩ Max.
Outer Contact Resistance	2.0 mΩ Max.
Voltage Rating (Sea Level)	170 Vrms Max.
DWV	325 Vrms Min. (sea level) : 125 Vrms min. (70,000 ft.)

<sup>1</sup> VSWR per connector when tested on Samtec multi-layer test PCB.

<sup>2</sup> Single connector insertion loss only.

**MECHANICAL DATA**

Mating Interface <sup>3</sup>	Full Detent per MIL-STD-348, Figure 328-2 Smooth Bore per MIL-STD-348, Figure 328-3
Mating Cycles	Full Detent: 100 cycles Smooth Bore: 500 cycles
Engagement Force	Full Detent: 36N (8 lbs.) Max. Smooth Bore: 18N (4 lbs.) Max.
Disengagement Force	Full Detent: 13N (3 lbs.) Min. (Bullet) : 20N (4.5 lbs.) Min. (Cable Connector) Smooth Bore: 2N (0.5 lbs.) Min.
Radial Misalignment	+/- 0.025cm (0.010") Min.
Axial Misalignment	0.025cm (0.010") Max.
Mass	0.29 g

<sup>3</sup> Compatible with GPPO™ and SSMP™ interfaces.

**ENVIRONMENTAL DATA**

Temperature Range	-65 to +165°C
Thermal Shock	MIL-STD-202-107, Condition B, high temperature +165°C per DSCC 10019
Vibration (High Frequency)	MIL-STD-202-204, Condition D per DSCC 10019
Vibration (Random)	MIL-STD-202-214, Condition F per DSCC 10019
Mechanical Shock	MIL-STD-202-213, Condition I per DSCC 10019

Series: SMPM, Plug, PCB Mixed Technology, 50 Ω

**REFERENCED DOCUMENTS**

<b>Interface</b>	<b>Drawing &amp; Footprint</b>
Full Detent	<a href="#">SMPM-PF-P-EG-ST-MT-1</a>
Smooth Bore	<a href="#">SMPM-PS-P-EG-ST-MT-1</a>

**USE OF PRODUCT SPECIFICATION SHEET**

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