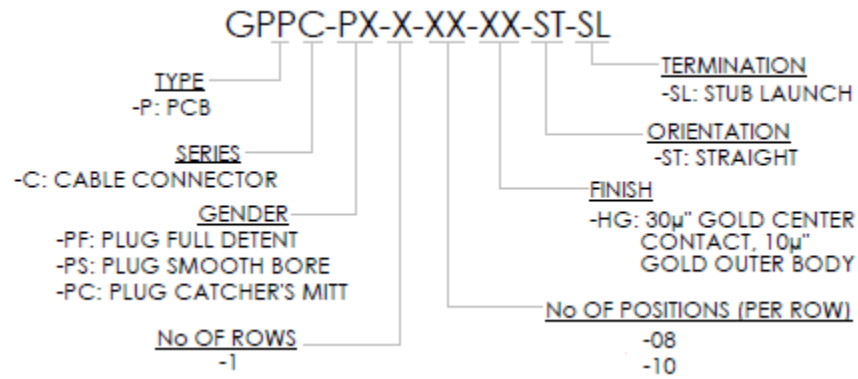
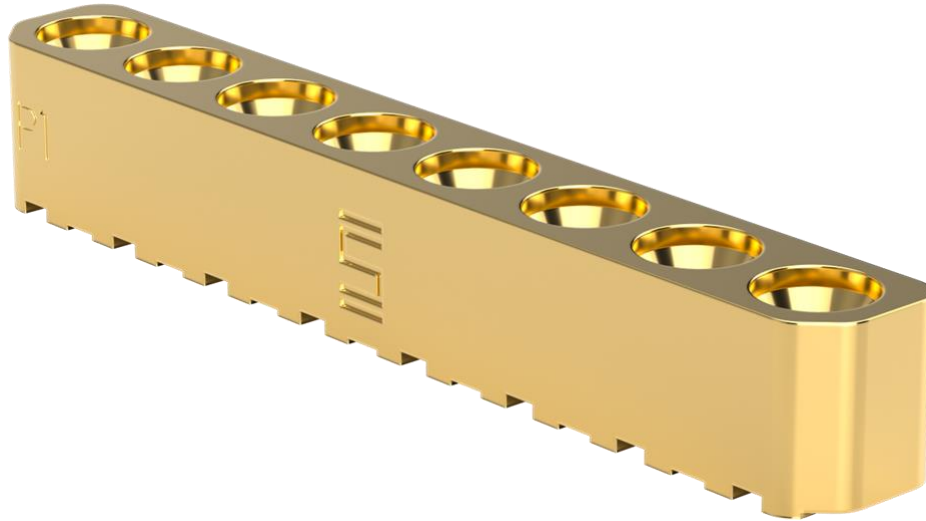


Series: SMPM, Plug, PCB Surface Mount, 1x8 Block .140 Pitch, 50 Ω



**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
Pin	Beryllium Copper	0.762 μm (30μ") Min. Gold Over 1.27μm (50 μ") Min. Nickel

**Series:** SMPM, Plug, PCB Surface Mount, 1x8 Block .140 Pitch, 50 Ω

**ELECTRICAL DATA**

Impedance	50 Ohm
Frequency Range	DC to 55 GHz
VSWR <sup>1</sup>	DC to 40 GHz: 1.25:1 Typ. 40 GHz to 55 GHz: 1.5:1 Typ.
Insertion Loss <sup>2</sup>	$0.045\sqrt{F(GHz)}$ 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	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 (SMPM Bullet): 13N (3 lbs.) Min. Full Detent (SMPM cable): 20N (4.5 lbs.) Min. Full Detent (GC47 & GC86): xN (X lbs.) Min per position Smooth Bore: 2N (0.5 lbs.) Min.
Radial Misalignment	+/- 0.025cm (0.010") Min.
Axial Misalignment	0.025cm (0.010") Max.
Mass	18.05 g

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

**ENVIRONMENTAL DATA**

Temperature Range	-65 to +150°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 Surface Mount, 1x8 Block .140 Pitch, 50 Ω](#)

### REFERENCED DOCUMENTS

Interface	Drawing & Footprint
Full Detent	<a href="#">GPPC-PF-1-08-HG-ST-SL</a>
Smooth Bore	<a href="#">GPPC-PF-1-08-HG-ST-SL</a>

### USE OF PRODUCT SPECIFICATION SHEET

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