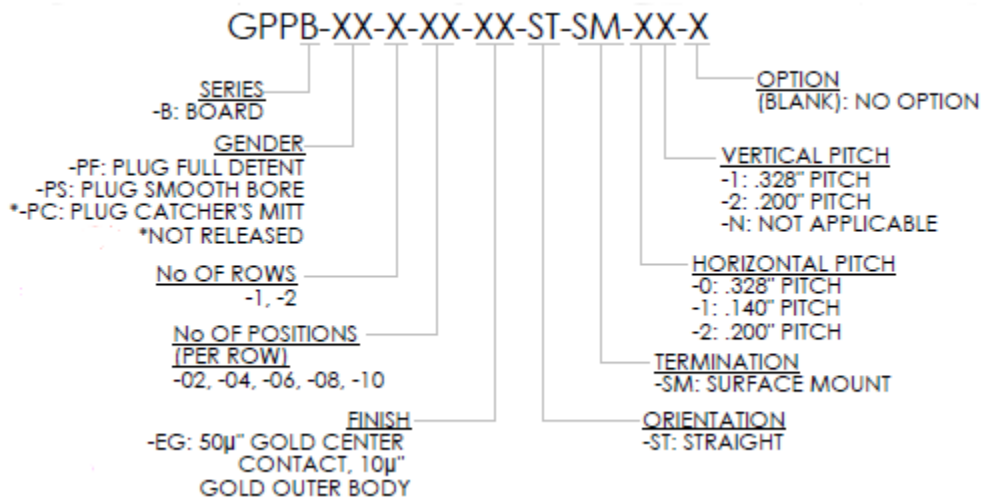
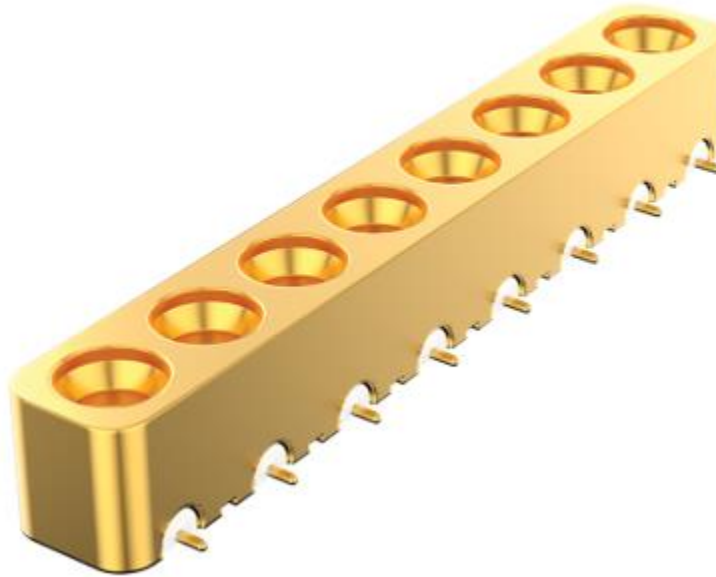


Series: SMPM, Plug, PCB Surface Mount, 1x8 Block .140 Pitch, 50 Ω



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	1.27 µm (50µ") 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 ¹	DC to 40 GHz: 1.25:1 Typ. 40 GHz to 55 GHz: 1.4:1 Typ.
Insertion Loss ²	$0.045\sqrt{F(GHz)}$ 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.)

¹ VSWR per connector when tested on Samtec multi-layer test PCB.

² Single connector insertion loss only.

MECHANICAL DATA

Mating Interface ³	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	18.05 g

³ 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 Surface Mount, 1x8 Block .140 Pitch, 50 Ω](#)

REFERENCED DOCUMENTS

Interface	Drawing & Footprint
Full Detent	GPPB-PF-1-08-EG-ST-SM-1N
Smooth Bore	GPPB-PS-1-08-EG-ST-SM-1N

USE OF PRODUCT SPECIFICATION SHEET

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