

Series: SMPM, Plug, PCB Right Angle Surface Mount, Ganged Block, 50 Ω



Part Number:

GPPC-PX-1-XX-EG-RA-SM

	└──	No OF POSITIONS
	└──	-02, -04, -06, -08, -10
	└──	No OF ROWS
	└──	-1
GENDER	└──	
-PF: PLUG FULL DETENT		
-PS: PLUG SMOOTH BORE		
-PC: CATCHER'S MITT		

**Series:** SMPM, Plug, PCB Right Angle Surface Mount, Ganged Block, 50 Ω

### MATERIAL AND FINISHES

Connector part	Material	Finish
Body	Brass	10μ" Gold over Nickel
Bead(s)	PEEK	N/A
Pin	Beryllium Copper	50μ" Gold over Nickel

### ELECTRICAL DATA

Impedance	50 Ohm
Frequency Range	DC to 50 GHz
VSWR <sup>1</sup>	DC to 26.5 GHz: 1.25:1 typ. 26.5 GHz to 50 GHz: 1.35:1 typ.
Insertion Loss <sup>2</sup>	$0.04\sqrt{F(GHz)}$ dB Max.
Insulation Resistance	5000 MΩ Min.
Voltage Rating (Sea Level) <sup>3</sup>	170 Vrms Max.
DWV <sup>3</sup>	325 Vrms Min. (sea level)

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

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

<sup>3</sup> May be further limited by PCB design.

### MECHANICAL DATA

Mating Interface <sup>4</sup>	IAW MIL-STD-348, Figure 328-2 & 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. Smooth Bore: 2N (0.5 lbs.) Min.
Radial Misalignment	+/- 0.025cm (0.010") Min.
Axial Misalignment	0.025cm (0.010") Max.

<sup>4</sup> Compatible with GPP0™ and SSMP™ interfaces.

Series: [SMPM, Plug, PCB Right Angle Surface Mount, Ganged Block, 50 Ω](#)

**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

**REFERENCED DOCUMENTS**

Interface	Drawing & Footprint
Full Detent, Smooth Bore, Catcher’s Mitt	<a href="#">GPPC-PX-1-XX-EG-RA-SM</a>

**USE OF PRODUCT SPECIFICATION SHEET**

This Product Specification Sheet (“PSS”) is a brief summary of information related to the Product identified. As a summary, it should only be used for the limited purpose of considering the purchase/use of Product. This PSS is the property of Samtec, Inc. (“Samtec”) and contains proprietary information of Samtec, our various licensors, or both. Samtec does not grant express or implied rights or license under any patent, copyright, trademark or other proprietary rights and the use of the PSS for building, reverse engineering or replication is strictly prohibited. By using the PSS, the user agrees to not infringe, directly or indirectly, upon any intellectual property rights of Samtec and acknowledges that Samtec, our various licensors, or both own all intellectual property therein. The PSS is presented “AS IS”. While Samtec makes every effort to present excellent information, the PSS is only provided as a guideline and does not, therefore, warrant it is without error or defect or that the PSS contains all necessary and/or relevant information about the Product. The user agrees that all access and use of the PSS is at its own risk. **NO WARRANTIES EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY KIND WHATSOEVER ARE PROVIDED**