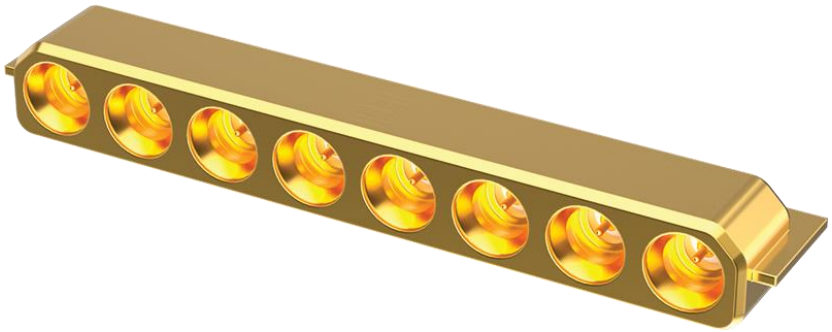
Series: SMPM, Plug, PCB Edge Mount, Ganged Block, 50 Ω



GPPC-XX-1-XX-EG-ST-EM-1N

GENDER
-PF: PLUG FULL DETENT
-PS: PLUG SMOOTH BORE

No OF ROWS
-1

No OF POSITIONS (PER ROW)
-02, -04, -06, -08, -10

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

Series: SMPM, Plug, PCB Edge Mount, Ganged Block, 50 Ω

ELECTRICAL DATA

Impedance	50 Ohm
Frequency Range	DC to 50 GHz
VSWR [1]	DC to 26.5 GHz: 1.25:1 Max. 26.5 GHz to 40 GHz: 1.45:1 Max. 40 GHz to 55 GHz: 2:1 Max.
Insertion Loss[2]	$0.04\sqrt{F(GHz)}\ dB$ Max.
Insulation Resistance	5000 MΩ Min.
Voltage Rating (Sea Level)[3]	170 Vrms Max.
DWV[3]	325 Vrms Min. (sea level)

[1] VSWR per connector when tested on Samtec multi-layer test PCB.
[2] Single connector insertion loss only.
[3] May be further limited by PCB design.

MECHANICAL DATA

Mating Interface [4]	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.

[4] 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

REFERENCED DOCUMENTS

Interface	**Drawing & Footprint**
Full Detent	GPPC-PF-1-XX-EG-ST-EM-1N
Smooth Bore	GPPC-PS-1-XX-EG-ST-EM-1N

Series: SMPM, Plug, PCB Edge Mount, Ganged Block, 50 Ω

USE OF PRODUCT SPECIFICATION SHEET

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