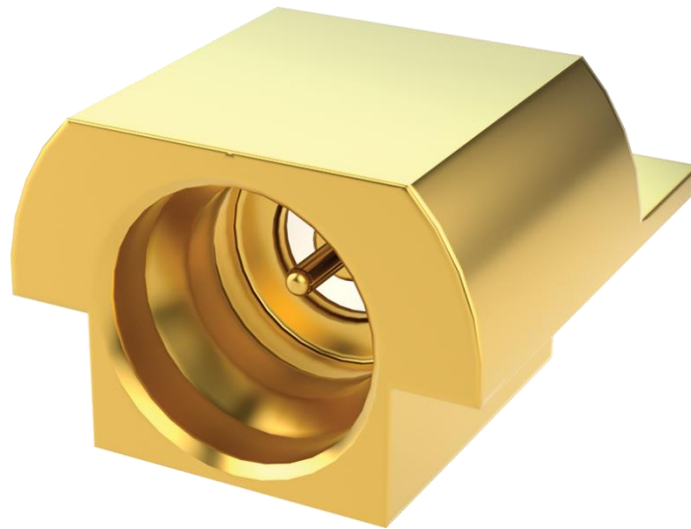


Series: SMP, Plug, PCB Edge Mount, 50 Ω



Part Number:

SMP-PX-P-XX-ST-EM

GENDER

- PF: PLUG FULL DETENT
- PL: PLUG LIMITED DETENT
- PS: PLUG SMOOTH DETENT

TYPE

- P: PCB

TERMINATION

- EM: EDGE MOUNT

ORIENTATION

- ST: STRAIGHT

FINISH

- HG: 30μ" HEAVY GOLD CENTER CONTACT,
10μ" GOLD OUTER BODY

Series: SMP, Plug, PCB Edge Mount, 50 Ω

MATERIAL AND FINISHES

Connector part	Material	Finish
Body	Brass	10μ" Gold over Nickel
Pin	Brass	30μ" Gold over Nickel
Insulator	PTFE	N/A

ELECTRICAL DATA

Impedance	50 Ohm
Frequency Range	DC to 40 GHz
VSWR ¹	DC to 18 GHz: 1.2:1 typ 18 to 26.5 GHz: 1.3:1 typ 26.5 to 40 GHz: 1.50:1 typ
Insertion Loss ²	$0.04\sqrt{F(GHz)}$ dB max
Insulation Resistance	5000 MΩ Min
Voltage Rating (Sea Level) ³	190 Vrms Max.
DWV ³	500 Vrms Min

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 326-2 & 326-3 & 326-4 & 326-5
Mating Cycles	Full Detent: 100 cycles Limited Detent: 500 cycles Smooth Bore: 1000 cycles
Engagement Force	Full Detent: 68N (15.28lbs) Max Limited Detent: 45N (10.11lbs) Max Smooth Bore: 9N (2.02lbs) Max.
Disengagement Force	Full Detent: 22N (4.94lbs) Min. Limited Detent: 9N (2.02lbs) Min Smooth Bore: 2.2N (0.49lbs) Min.
Radial Misalignment	+/- 0.025cm (0.010") Max.
Axial Misalignment	0.025cm (0.010") Max.
Mass	0.725 g

⁴ Compatible with GPO and SMP interfaces

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ENVIRONMENTAL DATA

Temperature Range	-65 to 165°C
Thermal Shock	MIL-STD-202, method 107, condition B
Vibration	MIL-STD-202, method 204, Condition B
Mechanical Shock	MIL-STD-202, method 213, condition B

REFERENCED DOCUMENTS

Interface	Drawing & Footprint
Full Detent/ Limit Detent/ Smooth Bore	SMP-PX-P-XX-ST-EM

USE OF PRODUCT SPECIFICATION SHEET

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