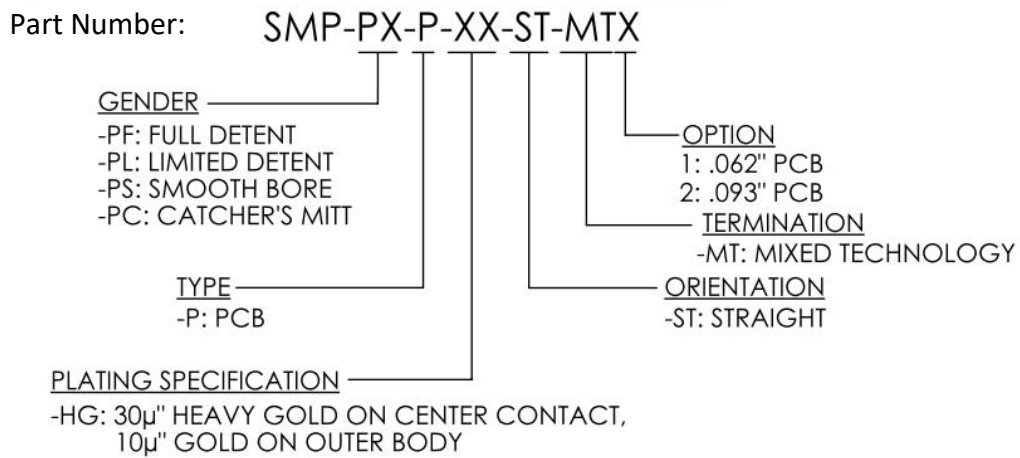


Series: SMP, Plug, PCB Mixed Technology, 50 Ω



Series: SMP, Plug, PCB Mixed Technology, 50 Ω

MATERIAL AND FINISHES

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

ELECTRICAL DATA

Impedance	50 Ohm
Frequency Range	DC to 40 GHz
VSWR ¹	DC to 18 GHz: 1.20:1 typ. 18 GHz to 26.5 GHz: 1.30:1 typ. 26.5 GHz 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. (sea level)

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

²Single connector insertion loss only.

³May 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 Catcher's Mitt: 1000 cycles
Engagement Force	Full Detent: 68N (15.28lbs) Max Limited Detent: 45N (10.11lbs) Max Smooth Bore: 9N (2.02lbs) Max. Catcher's Mitt: 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. Catcher's Mitt: 2.2N (0.49lbs) Min.
Radial Misalignment	+/- 0.025cm (0.010") Min.
Axial Misalignment	0.025cm (0.010") Max.
Mass	0.39g

⁴Compatible with GPO™ and SMP™ interfaces

Series: [SMP, Plug, PCB Mixed Technology, 50 \$\Omega\$](#) **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	SMP-PX-P-XX-ST-MTX
Limited Detent	SMP-PX-P-XX-ST-MTX
Smooth Bore	SMP-PX-P-XX-ST-MTX
Catcher's Mitt	SMP-PX-P-XX-ST-MTX

USE OF PRODUCT SPECIFICATION SHEET

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