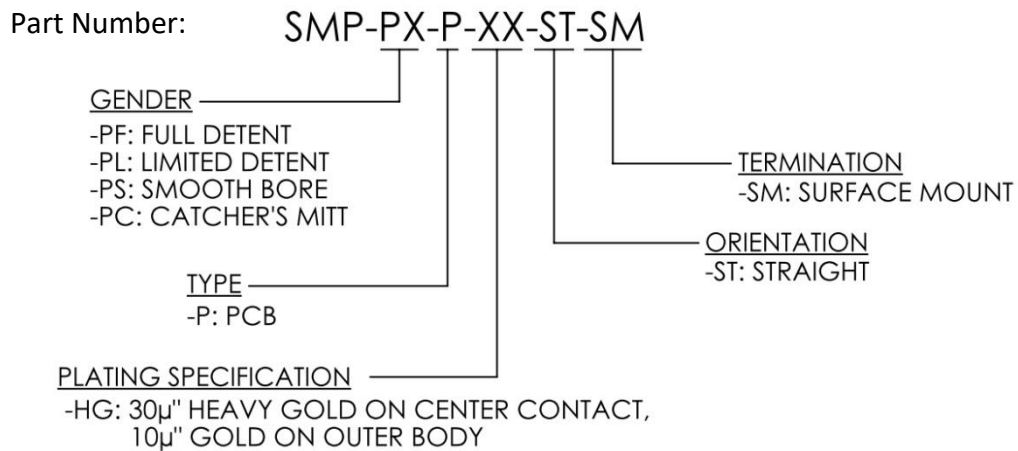
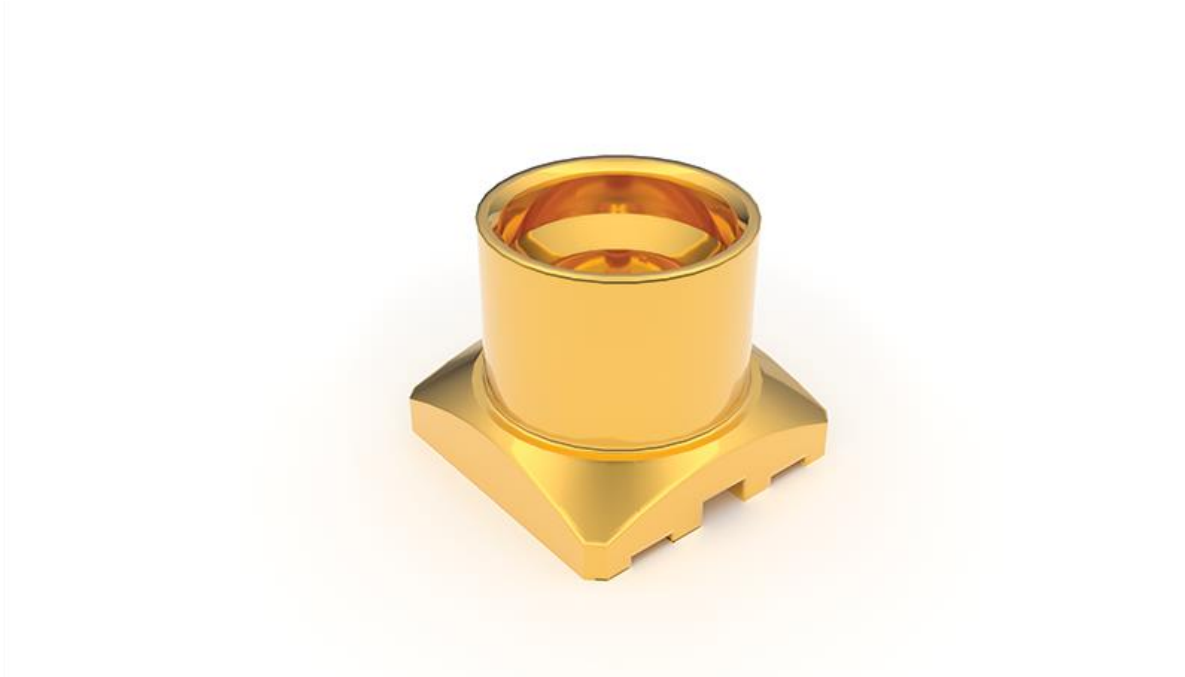


Series: SMP, Plug, PCB Surface Mount, 50 Ω



Series: [SMP, Plug, PCB Surface Mount, 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 | 0.35g |

⁴Compatible with GPO™ and SMP™ interfaces

Series: [SMP, Plug, PCB Surface Mount, 50 Ω](#)

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-SM |
| Limited Detent | SMP-PX-P-XX-ST-SM |
| Smooth Bore | SMP-PX-P-XX-ST-SM |
| Catcher’s Mitt | SMP-PX-P-XX-ST-SM |

USE OF PRODUCT SPECIFICATION SHEET

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