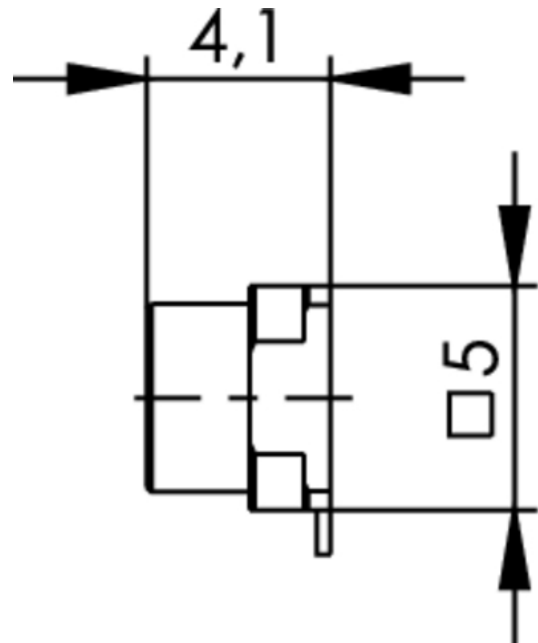


order number: J01390C0021

SMP Straight PCB Plug, Limited Detent, tape and reel packed



| Technical Attributes | |
|----------------------|--|
| Remarks | Limited Detent; tape and reel packed acc. to DIN IEC 286-3 |
| Mount. dim. | Z120 |

Product description

The SMP series comprises micro-miniature RF connectors with a snap coupling mechanism, suitable for use up to 12 GHz. The impedance is controlled at 50 Ohm. The mating faces are designed in accordance with the MIL-STD-348A specification. Cable terminations are either crimp or solder designs, for flexible and semi-rigid cables. The SMP series connectors are primarily used in high-speed signal transmission lines. Board-to-board PCB connections can be realised using the so-called SMP "bullets".

There are three different coupling mechanisms: Smooth bore Limited detent Full detent

| Mechanical Characteristics | |
|---|-----------|
| Durability (mating cycles) Full Detent | ≥ 100 |
| Durability (mating cycles) Limited Detent | ≥ 500 |
| Durability (mating cycles) Smooth Bore | ≥ 1000 |
| | 68 N max. |

| | |
|---------------------------------|-----------------|
| Insertion force Full Detent | |
| Insertion force Limited Detent | 45 N max. |
| Insertion force Smooth Bore | 9 N max. |
| Withdrawal force Full Detent | 22 N min. |
| Withdrawal force Limited Detent | 9 N min. |
| Withdrawal force Smooth Bore | 2.2 N min. |
| Material: spring contacts | CuBe2 |
| Material: solid contact parts | CuZn39Pb3 |
| Material: crimp ferrule | Cu |
| Material: insulators | PTFE, LCP, PEEK |
| Finish: Inner conductor | NiP-Au |
| Finish: Outer conductor | NiP-Au |
| Finish: Other metal parts | Ni-Au |

| | |
|---|-----------|
| Climatic Characteristics | |
| Climatic category acc. to IEC 60068 - 1 | 55/155/21 |

| | |
|------------------------------------|---|
| Electrical Characteristics | |
| Contact resistance inner conductor | $\leq 6 \text{ m}\Omega$ |
| Contact resistance outer conductor | $\leq 2 \text{ m}\Omega$ |
| Insulation resistance | $\geq 5 \text{ G}\Omega$ |
| Impedance | 50 Ω |
| Frequency range up to | 12 GHz |
| VSWR: Straight style, semi-rigid | typ. 1.03+0.02 f (GHz) |
| VSWR: Angle style, semi-rigid | typ. 1.04+0.03 f (GHz) |
| Proof voltage | 500 V _{eff} /50 Hz |
| Working voltage | $\leq 335 \text{ V}_{\text{eff}}/50 \text{ Hz}$ |