

DATA SHEET

Cable connector



Part Number

5140.SMB.PSC.06.111

Description

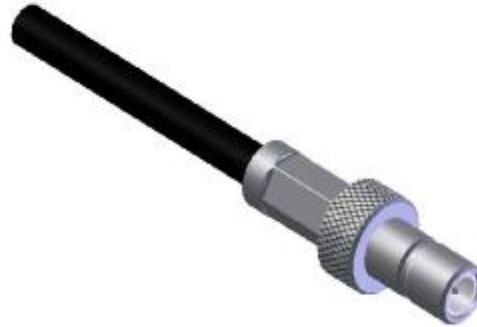
SMB, Plug, Straight,Cable

Interface Standard

IEC 169-10

Suitable Cable

RG316/U, RG174/U, RG188A/U



Electrical Data

| | | | |
|---------------------------------|----------------------------|-------------|-------------------|
| Impedance | 50 | Ω | |
| Max. operating frequency | 3 | GHz | cable limited |
| Frequency range | DC to 1GHz | 1 to 2.2GHz | 2.2 to 3GHz |
| VSWR | ≤ 1.05 | ≤ 1.07 | ≤ 1.08 |
| Insertion loss | $0.05\sqrt{f(\text{GHz})}$ | dB | |
| Insulation resistance | ≥ 1000 | $M\Omega$ | |
| Center contact resistance | ≤ 5 | $m\Omega$ | |
| Outer contact resistance | ≤ 2.5 | $m\Omega$ | |
| Dielectric withstanding voltage | ≥ 750 | Vrms @ 50Hz | connector limited |
| Working voltage | ≤ 250 | Vrms @ 50Hz | connector limited |

Mechanical Data

| | | |
|-----------------------------|-------------|----|
| Mating cycles | ≥ 500 | |
| Center contact axial force | ≥ 10 | N |
| Center contact axial torque | ≥ 0.02 | Nm |
| Center contact | solder | |
| Outer contact | crimp | |
| Cable retention force | | |
| -RG316/U, RG188A/U | ≥ 54.4 | N |
| -RG174/U | ≥ 43.5 | N |

Environmental Data

| | |
|-----------------------|--|
| Operating temperature | restricted by cable and/or silicone used |
| 2002/95/EC (ROHS) | compliant |
| Sealing | N/A |
| Thermal shock | MIL-STD-202 Method107, condition B |
| Moisture resistance | MIL-STD-202 Method106 |
| Corrosion resistance | MIL-STD-202 Method101, condition B |
| Vibration | MIL-STD-202 Method204, condition D |
| Shock | MIL-STD-202 Method213, condition I |

Material Data

| Piece Parts | Material | Surface Plating |
|----------------|----------|-----------------|
| center contact | Brass | Au |
| outer contact | Brass | Au |
| insulator | PTFE | |
| ferrule | Brass | Au |