

DATA SHEET

Cable connector



Part Number

5002.SMA.PSC.05.111

Description

SMA, Plug, Straight, Cable Mount

Interface Standard

IEC 60169-15

Suitable Cable

RG178B/U, RG196A/U



Electrical Data

| | | | |
|---------------------------------|-----------------------------|-------------|---------------|
| Impedance | 50 | Ω | |
| Max. operating frequency | 2.5 | GHz | cable limited |
| Frequency range | DC to 1GHz | 1 to 2.2GHz | 2.2 to 2.5GHz |
| VSWR | ≤ 1.05 | ≤ 1.08 | ≤ 1.12 |
| Insertion loss | $0.05 \sqrt{f(\text{GHz})}$ | dB | |
| Insulation resistance | ≥ 5000 | M Ω | |
| Center contact resistance | ≤ 3 | m Ω | |
| Outer contact resistance | ≤ 2.5 | m Ω | |
| Dielectric withstanding voltage | ≥ 500 | Vrms @ 50Hz | cable limited |
| Working voltage | ≥ 170 | Vrms @ 50Hz | cable limited |

Mechanical Data

| | | |
|-----------------------------|-------------|----|
| Mating cycles | ≥ 500 | |
| Center contact axial force | ≥ 22 | N |
| Center contact axial torque | ≥ 0.03 | Nm |
| contact gauge ret. Force | ≥ 0.28 | N |
| Center contact | solder | |
| Outer contact | crimp | |
| Cable retention force | | |
| RG178B/U | ≥ 32.7 | N |
| RG196A/U | ≥ 32.7 | N |

Environmental Data

| | |
|-----------------------|--|
| Operating temperature | restricted by cable and/or silicone used |
| 2002/95/EC (ROHS) | compliant |
| Sealing | IP68 (IEC60529) |
| 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 |
| body | Brass | Au |
| insulator | PTFE | |
| nut | Brass | Au |
| Ferrule | Brass | Au |
| O-ring | silicone rubber | |
| snap ring | Stainless steel | |

Zeeteq the technology connecting people

No. 51 Sci.-Tech Industry Park, Huoju
Road, SND, Suzhou, China
Zip: 215009

Tel: +86 512 6807 8808
Fax: +86 512 6807 8818
www.zeeteq.com

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