



All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to SMA side: IEC 60169-15; EN 122110; MIL-STD-348A, Fig. 310
7/16 side: IEC 60169-4, VG 95250, CECC 22190, DIN 47223

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact SMA
Outer contact 7/16
Dielectric
Gasket

Material

Beryllium copper
Brass
Brass
PTFE
Silicone

Plating

AuroDur, gold plated
Flash white bronze over silver(e.g. Optargen®)
White bronze(e.g. Optalloy®)

Electrical data

| | | |
|--|---------------------------------|---------------------|
| Impedance | 50 Ω | |
| Frequency | DC to 8.3 GHz | |
| Return loss | ≥ 34 dB, DC to 2.5 GHz | |
| | ≥ 21 dB, 2.5 to 8.3 GHz | |
| Insertion loss | ≤ 0.03 x √f(GHz) dB | |
| Insulation resistance | ≥ 5 x 10 ³ MΩ | |
| Center contact resistance | ≤ 3 mΩ, SMA side | ≤ 0.4 mΩ, 7/16 side |
| Outer contact resistance | ≤ 2 mΩ, SMA side | ≤ 1.5 mΩ, 7/16 side |
| Test voltage | 1000 V rms | |
| Working voltage | 480 V rms | |
| Power handling (at 20 °C, sea level, VSWR 1.0) | ≤ 200 W @ 2 GHz | |
| RF-leakage | ≥ 100 dB up to 1 GHz | |
| Intermodulation (3 rd order) | ≤ -120 dBm @ 2 x 20 W, 1800 MHz | |

Mechanical data

| | | |
|-----------------------------------|-------------|-------------|
| | SMA side | 7/16 side |
| Mating cycles | min. 100 | min. 500 |
| Coupling nut retention | N/A | ≥ 1000 N |
| Center contact captivation: axial | ≥ 200 N | ≥ 200 N |
| Coupling test torque | max. 0.6 Nm | max. 35 Nm |
| Recommended torque | 0.5 Nm | 25 to 30 Nm |

Environmental data

| | |
|---------------------|---------------------------------|
| Temperature range | -65°C to +165°C |
| Thermal shock | MIL-STD-202, Meth. 107, Cond. B |
| Corrosion | MIL-STD-202, Meth. 101, Cond. B |
| Vibration | MIL-STD-202, Meth. 204, Cond. D |
| Shock | MIL-STD-202, Meth. 213, Cond. I |
| Moisture resistance | MIL-STD-202, Meth. 106 |
| RoHS | compliant |

Tooling

N/A

Suitable cables

N/A

Weight

Weight 98 g/pce

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
|--|----------|-------------------|----------|------|--|-----------|---------------|
| A. König | 08/10/04 | Sa. Krautenbacher | 14.03.14 | d00 | 14-0352 | T. Krojer | 14.03.14 |
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