



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

Interface

According to IEC 60169-15; EN 122110; MIL-STD-348

Documents

PCB layout B 30B

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

Beryllium copper
Beryllium copper or equivalent
PTFE

Plating

AuroDur, gold plated
AuroDur, gold plated

Electrical data

| | |
|--|--|
| Impedance | 50 Ω |
| Frequency | DC to 18 GHz |
| VSWR | ≤ 1.05 + 0.005 x f [GHz], DC to 8 GHz ≤ 1.30, 8 to 18 GHz |
| Insertion loss | ≤ 0.03 x √f(GHz) dB |
| Insulation resistance | ≥ 5 x10 ³ MΩ |
| Center contact resistance | ≤ 3 mΩ |
| Outer contact resistance | ≤ 2 mΩ |
| Test voltage | 1000 V rms |
| Working voltage | 480 V rms |
| Power handling (at 20 °C, sea level, VSWR 1.0) | ≤ 200 W @ 2 GHz; ≤ 100 W @ 10 GHz |
| RF-leakage | ≥ 100 dB up to 1 GHz |

- VSWR in application depends decisive on PCB layout -

Mechanical data

| | |
|-----------------------------------|------------------|
| Mating cycles | min. 500 |
| Center contact captivation: axial | ≥ 27 N |
| radial | ≥ 3 Ncm |
| Coupling test torque | max. 1.7 Nm |
| Recommended torque | 0.8 Nm to 1.1 Nm |

Environmental data

| | |
|----------------------------|---------------------------------|
| Temperature range | -55°C to +155°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 |
| Max. soldering temperature | IEC 61760-1, +260°C for 10 sec. |
| RoHS | compliant |

Tooling

N/A

Suitable cables

N/A

Weight

Weight 1.40 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 |
|--|----------|-----------------|----------|------|--|-----------|---------------|
| Schmid M. | 08/03/07 | J_Krautenbacher | 21.07.16 | c00 | 15-1629 | I_Wallner | 21.07.16 |
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