



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

**Interface**

According to IEC 60169-16, MIL-PRF-39012, CECC 22210

**Documents**

Panel piercing B 12

**Material and plating**

**Connector parts**

- Center contact
- Outer contact
- Body
- Dielectric

**Material**

- Spring bronze
- Brass
- Brass
- PTFE

**Plating**

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

**Electrical data**

|  |  |
|--|--|
| Impedance                                      | 50 Ω   |
| Frequency                                      | DC to 11 GHz   |
| Return loss                                    | ≥ 32 dB, DC to 2.5 GHz<br>≥ 30 dB, 2.5 to 4 GHz<br>≥ 20 dB, 4 to 5 GHz |
| Insertion loss                                 | ≤ 0.05 dB, DC to 5 GHz   |
| Insulation resistance                          | ≥ 5 x10 <sup>3</sup> MΩ  |
| Center contact resistance                      | ≤ 1 mΩ   |
| Outer contact resistance                       | ≤ 0.25 mΩ  |
| Working voltage                                | 500 V rms  |
| Power handling (at 20 °C, sea level, VSWR 1.0) | 1000 W @ 1 GHz<br>700 W @ 2 GHz  |
| Intermodulation (3 <sup>rd</sup> order)        | ≤ -117 dBm @ 2 x 20 W  |

**Mechanical data**

|                                   |                  |
|-----------------------------------|------------------|
| Mating cycles                     | min. 500         |
| Center contact captivation: axial | ≥ 28 N           |
| radial                            | ≥ 3 Ncm          |
| Coupling test torque              | max. 1.7 Nm      |
| Recommended torque                | 0.7 Nm to 1.1 Nm |

**Environmental data**

|                     |                                 |
|---------------------|---------------------------------|
| Temperature range   | -45°C to +85°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. B |
| 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 | 29.3 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. Fellner   | 07/05/07 | J_Gramsamer | 15.04.15 | c00  | 15-0397  | J_Krautenb. | 15.04.15      |
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