



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

**Interface**

According to IEC 60169-15, EN 122110, MIL-STD-348A, Fig. 310

**Documents**

PCB layout B 30b

**Material and plating**

**Connector parts**

| Connector parts | Material       |
|-----------------|----------------|
| Center contact  | CuBe           |
| Outer contact   | CuBe or equiv. |
| Body            | Brass          |
| Dielectric      | PTFE           |

**Plating**

AuroDur®, gold plated  
 AuroDur®, gold plated  
 Gold, min. 0.15 µm, over chemical nickel

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**Electrical data**

|  |   |
|--|---|
| Impedance                                      | 50 Ω  |
| Frequency                                      | DC to 18 GHz  |
| VSWR   | ≤ 1.05 + 0.005 x f [GHz], DC to 8 GHz<br>≤ 1.25 8 to 18 GHz |
| Insertion loss                                 | ≤ 0.04 x √f(GHz) dB   |
| Insulation resistance                          | ≥ 5 x 10 <sup>3</sup> 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  |

- Connector only, 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          | -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          |
| Max. soldering temperature | IEC 61760-1, +260°C for 10 sec. |
| RoHS                       | compliant                       |

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

|        |            |
|--------|------------|
| Weight | 3.48 g/pce |
|--------|------------|

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For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



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|-----------|----------|-------------|----------|------|---------------------------|----------------|----------|
| Draft     | Date     | Approved    | Date     | Rev. | Engineering change number | Name           | Date     |
| Rong Fang | 30.03.04 | Chr. Janßen | 09.11.20 | d00  | 20-1927                   | S. Huber-Siegl | 09.11.20 |

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| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br><a href="http://www.rosenberger.de">www.rosenberger.de</a> |  |  |  | Tel. : +49 8684 18-0<br>Email : <a href="mailto:info@rosenberger.de">info@rosenberger.de</a> |  | Page<br>2 / 2 |  |
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