



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

**Interface**

|              |           |  |
|--------------|-----------|--|
| According to | SMB side: | IEC 60169-10, CECC 22130, US MIL-C-39012 |
|              | N side:   | IEC 60169-16, MIL-PRF-39012, CECC 22210  |

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
Outer contact SMB side  
Outer contact N side  
Dielectric

**Material**

CuBe  
Brass  
Brass  
PTFE

**Plating**

AuroDur®, gold plated  
AuroDur®, gold plated  
Nickel, 2.5-5 µm

**Electrical data**

|                           |   |
|---------------------------|---|
| Impedance                 | 50 Ω  |
| Frequency                 | DC to 4 GHz                                 |
| Return loss               | ≥ 25 dB, DC to 1 GHz<br>≥ 22 dB, 1 to 4 GHz |
| Insertion loss            | ≤ 0.05 √f(GHz) x dB                         |
| Insulation resistance     | ≥ 1x10 <sup>3</sup> MΩ                      |
| Center contact resistance | ≤ 5 mΩ, SMB side      ≤ 1 mΩ, N side        |
| Outer contact resistance  | ≤ 2.5 mΩ, SMB side      ≤ 0.25 mΩ, N side   |
| Test voltage              | 750 V rms, 50 Hz, at sea level              |
| Working voltage           | ≤ 250 V rms, 50 Hz, at sea level            |
| Contact current           | 1.5 A DC typ.                               |
| RF-leakage                | ≥ 55 dB up to 1 GHz                         |

**Mechanical data**

|                                   |                       |                  |
|-----------------------------------|-----------------------|------------------|
|                                   | SMB side              | N side           |
| Mating cycles                     | min. 500              | min. 500         |
| Center contact captivation: axial | ≥ 10 N                | ≥ 10 N           |
| Engagement force                  | ≤ 63 N                | N/A              |
| Disengagement force               | 8 N min. to 63 N max. | N/A              |
| Coupling test torque              | N/A                   | max. 1.7 Nm      |
| Recommended torque                | N/A                   | 0.7 Nm to 1.1 Nm |

**Environmental data**

|                     |                                 |
|---------------------|---------------------------------|
| Temperature range   | -55°C to +155°C                 |
| Thermal shock       | MIL-STD-202, Meth. 107, Cond. B |
| Vibration           | MIL-STD-202, Meth. 204, Cond. B |
| Corrosion           | MIL-STD-202, Meth. 101, Cond. B |
| Moisture resistance | MIL-STD-202, Meth. 106          |
| RoHS                | compliant                       |

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

Weight 25.8 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          |
| Inge Mühlauer  | 14/12/04 | Sa. Krautenbacher | 20.03.14 | b00  | 14-0352  | T. Krojer | 20.03.14      |
| 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>Fax: +49 8684 18-499<br>email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a> |           | Page<br>2 / 2 |