



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

**Interface**

According to IEC 60169-8, MIL-PRF-39012, CECC 22120

**Documents**

Assembly instruction 51 S1  
 Panel piercing B 3

**Material and plating**

**Connector parts**

Center contact  
 Outer contact  
 Body  
 Dielectric  
 Gasket

**Material**

Spring bronze  
 Brass  
 Brass  
 PTFE  
 Silicone

**Plating**

Gold, min. 0.8 µm, over chemical nickel  
 Flash white bronze over silver(e.g. Optargen®)  
 Flash white bronze over silver(e.g. Optargen®)

**Electrical data**

Impedance	50 Ω
Frequency	DC to 10 GHz
Return loss	≥ 27 dB, DC to 2 GHz ≥ 25 dB, 2 to 4 GHz ≥ 20 dB, 4 to 6 GHz
Insertion loss	≤ 0.05 x √ f [GHz] dB, DC to 6 GHz
Insulation resistance	≥ 5 x10 <sup>3</sup> MΩ
Center contact resistance	≤ 1.5 mΩ
Outer contact resistance	≤ 1 mΩ
Test voltage	1500 V rms
Working voltage	400 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 80 W @ 2 GHz

- Limitations are possible due to the used cable type -

**Mechanical data**

Mating cycles	min. 500
Center contact captivation: axial	≥ 15 N

**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. G
Moisture resistance	MIL-STD-202, Meth. 106

**Tooling**

N/A

**Suitable cables**

UT 85, RG 405 /U

**Packing**

Standard	1 pce in bag
Weight	16.2 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	13/07/04	Rong Fang	18/10/05	b00	05-0566	Inge Mühlauer	18/10/05
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>					Tel.: +49 8684 18-0 Fax: +49 8684 18-499 email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>		Page 2 / 2