



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

**Interface**

According to IEC 60169-11, DIN 47231

**Documents**

Panel piercing B 376

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Dielectric  
O-Ring

**Material**

Spring bronze  
Brass  
PTFE  
NBR

**Plating**

Silver, 3-6 µm  
Flash white bronze over silver(e.g. Optargen®)

**Electrical data**

Impedance	50 Ω
Frequency	DC to 8.3 GHz
Return loss	≥ 32 dB, DC to 2.2 GHz
Insertion loss	≤ 0.05 dB x $\sqrt{f(\text{GHz})}$
Insulation resistance	≥ 10 <sup>4</sup> MΩ
Center contact resistance	≤ 0.4 mΩ
Outer contact resistance	≤ 1.5 mΩ
Test voltage (at sea level)	4000 V rms, 50 Hz
Working voltage (at sea level)	2700 V rms, 50 Hz
Power handling (at 20 °C, sea level, VSWR 1.0)	1800 W @ 1 GHz 800 W @ 4 GHz
RF-leakage	≥ 128 dB up to 1 GHz
Intermodulation (3 <sup>rd</sup> order)	≤ -122 dBm @ 2 x 40 W

- Limitations are possible due to the used cable type

**Mechanical data**

Mating cycles	min. 500
Center contact captivation: axial	≥ 80 N

**Environmental data**

Temperature range	-55°C to +85°C
Rapid change of temperature	DIN EN 122190, clause 4.6.7
Corrosion salt mist	US MIL-STD 202, Meth. 101/D
Vibration	MIL-STD-202, Meth. 204, Cond. B
Shock	MIL-STD-202, Meth. 213, Cond. G
Damp heat	DIN EN 122190, clause 4.6.6
Climatic tests	IEC 60068 65/85/21, IEC 60068 65/165/21 PTFE Insulator
Degree of protection (mounted interface and mounted on panel)	IEC 60529, IP67
RoHS	compliant

**Tooling**

N/A

**Weight**

Weight	23.5 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
Rong Fang	13/01/11	Sa. Krautenbacher	21.03.14	400	14-0352	T. Krojer	21.03.14
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	

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Rosenberger:](#)

[65K401-500N1](#)