



All dimensions are in mm; tolerances acc. ISO 2768 m-H

**Interface**

According to

MIL-STD-348

Mateable with GPPO™ (Gilbert Engineering Co., Inc.)  
and SSMP™ (Connectors Devices, Inc.)

**Documents**

PCB layout

B 204

Tape & reel packaging

VG45.1M500

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Dielectric

**Material**

Brass  
Brass  
PTFE

**Plating**

AuroDur®, gold plated  
AuroDur®, gold plated

**Electrical data**

Impedance	50 Ω
Frequency	DC to 65 GHz
Return loss	≥ 26 dB, DC to 12 GHz ≥ 20 dB, 12 GHz to 16 GHz ≥ 10 dB, 16 GHz to 26 GHz
Insertion loss	≤ 0.05 x √f(GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 6.0 mΩ
Outer contact resistance	≤ 2.0 mΩ
Working voltage (at sea level)	325 V rms
(at 70000 feet)	125 V rms

- VSWR in application depends decisive on PCB layout -

**Mechanical data**

Mating cycles	≥ 100
Center contact captivation	≥ 5 N
Engagement force	
- smooth bore	11 N typical
Disengagement force	
- smooth bore	11 N typical

**Environmental data**

Temperature range	-55°C to +155°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Vibration	MIL-STD-202, Method 204, Condition A
Shock	MIL-STD-202, Method 213, Condition A
Moisture resistance	MIL-STD-202, Method 106
Climatic Category	IEC 60068 55/155/21
Max. soldering temperature	IEC 61760-1, +260°C for 10 sec.
RoHS	compliant

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

Weight 0.2 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
Rong Fang	17/07/06	B. Aicher	03.03.16	e00	15-1674	Fl. Öllerer	03.03.16
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 email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>		Page 2 / 2