



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

**Interface**

According to N/A

**Documents**

PCB layout B 191  
Tape & reel packaging VG55.2M500

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Dielectric

**Material**

Beryllium copper  
Brass  
LCP

**Plating**

Gold, min. 0.8 µm, over chemical nickel  
Gold, min. 0.15 µm, over chemical nickel

**Electrical data**

Impedance	50 Ω
Frequency	DC to 10 GHz
Return loss	≥ 25 dB, DC to 5 GHz ≥ 22 dB, 5 to 10 GHz
Insertion loss	≤ 0.1 dB x √f [GHz]
Insulation resistance	≥ 5 x10 <sup>3</sup> MΩ
Center contact resistance	≤ 6 mΩ
Outer contact resistance	≤ 2 mΩ
Test voltage	500 V rms
Working voltage	335 V rms
RF-leakage (valid for screened connection only)	≤ -80 dB up to 3 GHz ≤ -65 dB up to 10 GHz
Contact current	1.2 A DC max.

- Dependent on PCB layout -

**Mechanical data**

Mating cycles	min. 100
Engagement force	45 N max.
Disengagement force	9 N min.

**Environmental data**

Temperature range	-40 °C to +105 °C (completely deflected)
Max. soldering temperature	IEC 61760-1, +260°C for 10 sec.
Rapid change of temperature	IEC 60169-1 clause 16.4 (-40 °C to +105 °C)
Mixed flowing gas	DIN EN 60068-2-60 meth. 4 (10 d)
Vibration	IEC 61169-1 clause 9.3.3 (10-2000 Hz; 15 g)
Shock	IEC 60169-1 clause 15.8 (50 g 11 ms half-sine)
Damp heat	IEC 60169-1 clause 16.3 (+40 °C 56 d)
2002/95/EC (RoHS)	compliant

**Suitable cables**

N/A

**Weight**

Weight	0.26 g/pce
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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
Andreas Fellner	13/07/05	Sa. Krautenbacher	11.03.14	h00	14-0352	T. Krojer	11.03.14
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

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