



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

**Interface**

RPC-TNC according to  
SMA according to  
SMA mechanically compatible with

IEC 60169-26  
IEC 60169-15; EN 122110; MIL-STD 348A/310  
RPC-2.92 and RPC-3.50

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Coupling nut  
Dielectric 1  
Dielectric 2  
Gasket SMA

**Material**

Beryllium copper  
Stainless steel  
Stainless steel  
PTFE  
PPE  
Silicone

**Plating**

Gold, min. 1.27  $\mu$ m, over chemical nickel  
Passivated  
Passivated

**Electrical data**

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 19 dB, DC to 18 GHz
Insertion loss	≤ 0.1 x √f(GHz) dB
Insulation resistance	≥ 5 GΩ
Center contact resistance RPC-TNC	≤ 1.5 mΩ
Outer contact resistance RPC-TNC	≤ 1.0 mΩ
Center contact resistance SMA	≤ 3.0 mΩ
Outer contact resistance SMA	≤ 2.0 mΩ
Test voltage	1000 V rms
Working voltage	480 V rms
RF-leakage	≥ 90 dB up to 1 GHz

**Mechanical data**

Mating cycles	≥ 500
Center contact captivation	≥ 27 N
Coupling test torque RPC-TNC	1.70 Nm
Recommended torque RPC-TNC	0.46 Nm to 0.69 Nm
Coupling test torque SMA	1.70 Nm
Recommended torque SMA	0.80 Nm to 1.10 Nm

**Environmental data**

Temperature range	-40°C to +85°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106
RoHS	compliant

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

38.6 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
Herbert Babinger	02.12.04	Martin Moder	08.06.18	c01	18-0941	M. Knoll	08.06.18
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