



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

Interface

RPC-7 according to
SMA according to
SMA mechanically compatible with

IEC 457-2
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 RPC-7
Outer contact SMA
Coupling nut
Dielectric 1
Dielectric 2
Gasket SMA

Material

Beryllium copper
Beryllium copper
Stainless steel
Stainless steel
PPE
PTFE
Silicone

Plating

Gold, min. 1.27 µm, over nickel
Gold, min. 1.27 µm, over chemical nickel
Passivated
Passivated

**ADAPTOR
RPC-7 – SMA PLUG**

07P132-S00S3

Electrical data

Impedance	50 Ω
Frequency	DC to 18 GHz
Return loss	≥ 23 dB, DC to 18 GHz
Insertion loss	≤ 0.1 x $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance RPC-7	≤ 1.0 mΩ
Outer contact resistance RPC-7	≤ 0.1 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 RPC-7	≥ 5000
Mating cycles SMA	≥ 500
Center contact captivation	≥ 28 N
Coupling test torque RPC-7	1.95 Nm
Recommended torque RPC-7	1.36 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 2002/95/EC (RoHS)	MIL-STD-202, Method 106 compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	1 pce in box
Weight	47.9 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	05/08/04	Krautenbacher J.	19/10/06	b00	06-0478	B. Dandl	19/10/06
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de					Tel.: +49 8684 18-0 Fax: +49 8684 18-499 email: info@rosenberger.de		Page 2 / 2