



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

Interface

According to P-SMP side: Rosenberger P-SMP
SMA side: IEC 60169-15; EN 122110; MIL-STD-348A, Fig. 310

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact P-SMP side
Outer contact SMA side
Dielectric

Material

CuBe
CuBe
Stainless steel
PTFE

Plating

AuroDur®, gold plated
AuroDur®, gold plated
Passivated

Electrical data

Impedance	50 Ω
Frequency	DC to 10 GHz
Return loss	≥ 38 dB, DC to 4 GHz ≥ 26 dB, 4 to 10 GHz
Insertion loss	≤ 0.05 x √f(GHz) dB, DC to 10 GHz
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 3.0 mΩ
Outer contact resistance	≤ 2.0 mΩ
Test voltage	1000 V rms
Working voltage	480 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 200 W @ 2.2 GHz

Mechanical data

	SMA side	P-SMP side
Mating cycles	≥ 500	
if mating part is Smooth bore, Catchers mitt		≥ 1000
if mating part is Limited detent		≥ 100
if mating part is Full detent		≥ 100
Center contact captivation: axial	≥ 27 N	≥ 27 N
Engagement force:		
- Smooth bore, Catchers mitt	N/A	≤ 10 N
- Limited detent	N/A	≤ 45 N
- Full detent	N/A	≤ 68 N
Disengagement force:		
- Smooth bore, Catchers mitt	N/A	≥ 2.2 N
- Limited detent	N/A	≥ 15 N
- Full detent	N/A	≥ 25 N
Coupling test torque	≤ 1.7 Nm	N/A
Recommended torque	0.7 Nm to 1.1 Nm	N/A
Permissible angular misalignment		4°

Environmental data

Temperature range	-55°C to +155°C
Rapid change of temperature	IEC 60169-1, Sub-clause 16.4 (-55°C to +155°C)
Vibration	IEC 60068-2-64 random
Shock	IEC 60068-2-27 (half-sine)
High temperature endurance	IEC 60169-1, Sub-clause 18 (+155°C, 1000 hours)
2002/95/EC (RoHS)	compliant

Weight

Weight	4.8 g/pc
--------	----------

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.

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF_35/12.04/3.0

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Huppenberger	25.11.09	Sa. Krautenbacher	10.03.14	e00	14-0352	T. Krojer	10.03.14
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