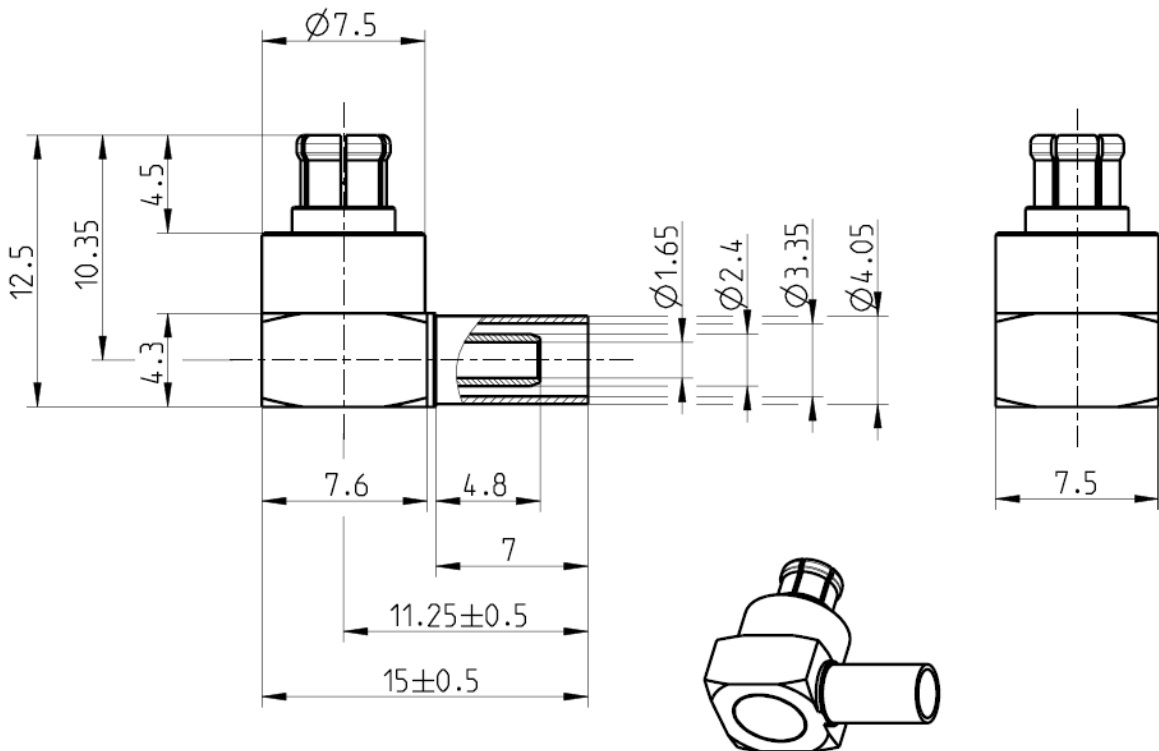


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RF_35/06.07/5.0

Technical Data Sheet		Rosenberger	
P-SMP RIGHT ANGLE JACK		119K207-303N5	
			
All dimensions are in mm; tolerances acc. to ISO 2768 m-H			
Interface		Rosenberger P-SMP	
Documents		119 B2	
Material and plating			
Connector parts		Material	Plating
Center contact		CuBe	AuroDur®, gold plated
Outer contact		CuBe	Flash white bronze over silver(e.g. Optargen®)
Body		Brass	White bronze(e.g. Optalloy®)
Dielectric		PTFE	
Crimping ferrule		Copper	White bronze(e.g. Optalloy®)
Tooling			
Crimping tool		11W-150-000	
Crimp insert		11W-150-102	
Suitable cables		RG 316-d; RG 179 B/U-d	
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	
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Technical Data Sheet

Rosenberger

P-SMP RIGHT ANGLE JACK

119K207-303N5

Electrical data

Impedance	50 Ω
Frequency	DC to 10 GHz
Return loss	≥ 26 dB, DC to 2 GHz ≥ 23 dB, 2 to 6 GHz
Insertion loss	$\leq 0.03 \times \sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 5 G Ω
Center contact resistance	≤ 3.0 m Ω
Outer contact resistance	≤ 2.0 m Ω
Test voltage (at sea level)	1000 V rms
Working voltage (at sea level)	480 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 200 W @ 2.2 GHz
Intermodulation (3 rd order)	≥ 160 dBc (2 x 43 dBm)
<i>Limitations are possible due to the applied cable type</i>	

Mechanical data

Mating cycles	
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	≥ 7 N
Engagement force:	
- Smooth bore, Catchers mitt	≤ 10 N
- Limited detent	≤ 45 N
- Full detent	≤ 68 N
Disengagement force:	
- Smooth bore, Catchers mitt	≥ 2.2 N
- Limited detent	≥ 15 N
- Full detent	≥ 25 N
Permissible angular misalignment	4°

Environmental data

Temperature range	-65°C to +165°C
Rapid change of temperature	IEC 60169-1, Sub-clause 16.4 (-65°C to +165°C)
Vibration	IEC 60068-2-64 random
Shock	IEC 60068-2-27 (half-sine)
High temperature endurance	IEC 60169-1, Sub-clause 18 (+165°C, 1000 hours)
2002/95/EC (RoHS)	compliant

Weight

Weight	3.05 g/pc
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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
Huppenberger	09.08.10	Sa. Krautenbacher	11.03.14	c00	14-0352	T. Krojer	11.03.14
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