



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

**Interface**

P- SMP  
SMA according to

Spring loaded center- and outer contact  
IEC 60169-15; EN 122110; MIL-STD-348

**Documents**

N/A

**Material and Plating**

**Connector parts**

- Center contacts
- Outer contact P-SMP side
- Outer contact SMA side
- Body
- Spring
- Dielectric

**Material**

- Beryllium copper
- Stainless steel
- Brass
- Brass
- Stainless steel
- PTFE

**Plating**

- AuroDur®, gold plated
- Passivated
- Flash white bronze over silver(e.g. Optargen®)
- Flash white bronze over silver(e.g. Optargen®)
- Passivated

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RF\_35/12.04/3.0

**Electrical Data**

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 28 dB, DC to 3 GHz ≥ 18 dB, 3 to 6 GHz
Insertion loss	≤ 0.08 x √f(GHz) dB, DC to 6 GHz
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 3 mΩ
Outer contact resistance	≤ 2 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**

	P-SMP side	SMA side
Mating cycles	≥ 1000	≥ 500
Center contact captivation: axial	≥ 15 N	
Center contact	≤ 2 N at 1.4mm spring travel	
Outer contact	≤ 8 N at 2mm spring travel	
Permissible angular misalignment	4°	
Working travel	recommended: 4.3mm maximum: 6.3mm	

**Environmental Data**

Temperature range	-40°C to +85°C
Rapid change of temperature	IEC 60169-1, Sub-clause 16.4 (-40°C to +85°C)
Vibration	IEC 60068-2-64 random
Shock	IEC 60068-2-27 (half-sine)
High temperature endurance	IEC 60169-1, Sub-clause 18 (+85°C, 1000 hours)
RoHS	compliant

**Weight**

16,8 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.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Huppenberger	15.12.10	S_Mühlbacher	15.02.16	b00	16-0004	J_Krautenbacher	15.02.16
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