



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

**Interface**

RPC-3.50 according to  
RPC-3.50 mechanically compatible with  
P-SMP according to

IEC 60169-23  
RPC-2.92 and SMA  
Rosenberger P-SMP

**Documents**

N/A

**Material and plating**

**Connector parts**

- Center contact
- Outer contact
- Flange
- Dielectric

**Material**

- CuBe
- Stainless steel
- Brass
- PS

**Plating**

- Gold, min. 1.27 µm, over chemical nickel
- Passivated
- Flash white bronze over silver(e.g. Optargen®)

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RF\_35/05:10/6.0

Floating Adaptor  
RPC-3.50 female – P-SMP male (FULL DETENT)

**03K719-S60S3**

**Electrical data**

Impedance 50 Ω  
 Frequency DC to 10 GHz  
 Return loss ≥ 35 dB, DC to 4 GHz  
 ≥ 26 dB, 4 GHz to 10 GHz  
 Insertion loss ≤ 0.04 x √f(GHz) dB  
 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**

	RPC-3.50 side	P-SMP side
Mating cycles RPC-3.50	≥ 500	≥ 100
Center contact captivation: axial	≥ 27 N	≥ 27 N
Engagement force		
- Full detent	N/A	≤ 68 N
Disengagement force		
- Full detent	N/A	≥ 25 N
Coupling test torque	≤ 1.7 Nm	N/A
Recommended torque	0.80 Nm to 1.10 Nm	N/A
Misalignment: radial	0.7 mm min.	
Spring force	min. 8 N at rest	
	max. 15 N at max. spring travel	
Spring travel	2.3 mm max.	

**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)  
 2002/95/EC (RoHS) compliant

**Tooling**

N/A

**Suitable cables**

N/A

**Packing**

Standard 1 pc in box  
 Weight 9.57 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
B. Huppenberger	18/10/10	Martin Moder	20/08/12	b00	12-0192	Georg Schiele	20/08/12
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