



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
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