



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

**Interface**

RPC-1.00 side according to	IEC 61169-31
RPC-1.85 side	
According to	IEC 61169-32
Mechanically compatible with	RPC-2.40

**Documents**

N/A

**Material and plating**

**Connector parts**

Center conductor	<b>Material</b> CuBe	<b>Plating</b> Gold, min. 1.27 $\mu\text{m}$ , over nickel
Outer conductor	CuBe or equiv.	Gold, min. 1.27 $\mu\text{m}$ , over nickel
Coupling Nut	Stainless steel	Passivated
Dielectric	PEEK	

Adaptor  
RPC-1.00 Plug – RPC-1.85 Plug

**01S108-S00D3**

**Electrical data**

Frequency	DC to 70 GHz
Return loss	≥ 19 dB, DC to 20 GHz ≥ 17 dB, 20 GHz to 50 GHz ≥ 14 dB, 50 GHz to 70 GHz

**Mechanical data**

	RPC-1.00	RPC-1.85
Mating cycles	≥ 500	≥ 500
Maximum torque	0.70 Nm	1.65 Nm
Recommended torque	0.35 Nm	0.90 Nm
Gauge	0.00 mm to 0.03 mm	0.00 mm to 0.05 mm

**Environmental data**

Temperature range	- 40 °C to +85 °C
RoHS	compliant

**Packing**

Standard	1 pce in box
Weight	4.5 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
Herbert Babinger	24.01.05	Markus Müller	24.08.16	e00	16-1394	Marion Striegler	24.08.16
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de					Tel. : +49 8684 18-0 Email : info@rosenberger.de		Page 2 / 2