



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

Interface

RPC-N according to	IEC 61169-16
4.3-10 according to	IEC 61169-54

Documents

Application note	AN001 "Calibration Services"
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Material and plating

Connector parts

Center conductor
Outer conductor RPC-N
Contact spring 4.3-10
Body
Dielectric

Material

CuBe
Stainless steel
CuBe
Stainless steel
PPE

Plating

Gold, min. 1.27 µm, over nickel
Passivated
Gold, min. 1.27 µm, over nickel
Passivated

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RF_35/09.14/6.2

Electrical data

Frequency range	DC to 12 GHz
Return loss	≥ 34 dB, DC to 4 GHz ≥ 30 dB, 4 GHz to 6 GHz ≥ 25 dB, 6 GHz to 12 GHz

Mechanical data

Mating cycles	≥ 500	
	RPC-N	4.3-10
Mating cycles	≥ 500	≥ 100
Maximum torque	1.70 Nm	5 Nm
Recommended torque	1.10 Nm	2 Nm
Gauge	5.18 mm to 5.26 mm	3.10 mm to 3.20 mm

General standard definitions

For proper operation the vector network analyzer (VNA) needs a model describing the electrical behaviour of this calibration standard. The different models, units, and terms used will depend on the VNA type and they will have to be entered into the VNA. All values are based on typical geometry and plating.

Offset Z_o / Impedance / Z_o	50 Ω
Offset Delay	151.4224 ps
Length (electrical) / Offset Length	45.40 mm
Offset Loss	1.80 G Ω /s
Loss	0.0237 dB/ $\sqrt{\text{GHz}}$

Environmental data

Operating temperature range ¹	+20 °C to +26 °C
Rated temperature range of use ²	0 °C to +50 °C
Storage temperature range	- 40 °C to +85 °C

RoHS compliant

¹ Temperature range over which these specification are valid.

² This range is underneath and above the operating temperature range, within the calibration adaptor is fully functional and could be used without damage.

Declaration of calibration options

Factory Calibration

Standard delivery for this calibration standard includes a Factory Calibration. The Calibration Certificate issued reports individual calibration results, **traceable to Rosenberger standards**, national / international standards are not available. Model based standard definitions are reported in an Agilent/Keysight, Rohde & Schwarz and Anritsu compatible VNA format.

Accredited Calibration

Not available.

For further, more detailed information see application note AN001 on the Rosenberger homepage.

Calibration interval

Recommendation 12 months

Packing

Standard 1 pce in box
Weight 73.5 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	09.08.13	Markus Müller	14.10.16	d00	16-1390	Marion Striegler	14.10.16

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