



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

Interface

7-16 side, according to
RPC-N side, according to

IEC 61169-4, EN 122190, DIN 47223
IEC 61169-16

Documents

Application note

AN001 "Calibration Services"

Material and plating

Connector parts

Center conductor
Outer conductor
Body
Coupling nut
Dielectric

Material

CuBe
Stainless steel
Brass
Stainless steel
PPE

Plating

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

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RF_35/09;14/6.2

Electrical data

Frequency	DC to 8 GHz
Return loss	≥ 36 dB, DC to 4 GHz ≥ 33 dB, 4 GHz to 8 GHz

Mechanical data

	7-16 side	RPC-N side
Mating cycles	≥ 500	≥ 500
Maximum torque	35 Nm	1.70 Nm
Recommended torque	2.26 Nm	1.10 Nm
Gauge	1.72 mm to 1.76 mm	5.28 mm to 5.36 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	150.771 ps
Length (electrical) / Offset Length	45.20 mm
Offset Loss	1.00 GΩ/s
Loss	0.0131 dB/√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 national / international standards. Model based standard definitions are reported in an Agilent/Keysight, Rohde & Schwarz and Anritsu compatible VNA format.

Accredited Calibration

Optional this calibration standard can be delivered with an Accredited Calibration (DAkkS) having the highest confidence in the traceability. The DAkkS Calibration Certificate issued reports individual calibration results in a complex format, traceable to national / international standards. Model based standard definitions are reported in an Agilent/Keysight, Rohde & Schwarz and Anritsu compatible VNA format. The uncertainties are smaller than in a Factory Calibration.

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 117 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
Marcel Panicke	03.08.15	Markus Müller	10.08.16	c00	16-1267	Marion Striegler	10.08.16

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