



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

**Interface**

According to IEC 61169-4, EN 122190, DIN 47223

**Documents**

Application note AN001 "Calibration Services"

**Material and plating**

**Connector parts**  
Center conductor  
Outer conductor  
Dielectric

**Material**  
CuBe  
Stainless steel  
PPE

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

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RF\_35/09;14/6.2

**Electrical data**

Frequency range	DC to 8 GHz
Return loss	≥ 38 dB, DC to 4 GHz ≥ 34 dB, 4 GHz to 8 GHz

**Mechanical data**

Mating cycles	≥ 500
Maximum torque	35 Nm
Recommended torque	2.26 Nm
Gauge	1.78 mm to 1.82 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 $\Omega$
Offset Delay	156.775 ps
Length (electrical) / Offset Length	47.00 mm
Offset Loss	0.50 G $\Omega$ /s
Loss	0.0068 dB/ $\sqrt{\text{GHz}}$

**Environmental data**

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

RoHS compliant

<sup>1</sup> Temperature range over which these specification are valid.

<sup>2</sup> 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	d00	16-1267	Marion Striegler	10.08.16

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