



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

Interface

According to IEC 169-24 , EIA-550

Documents

Application note AN001 "Calibration Services"

Material and plating

Connector parts

- Center conductor
- Outer conductor
- Coupling nut

Material

- CuBe
- Stainless steel
- Stainless steel

Plating

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

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Electrical data

Frequency range	DC to 4 GHz
Return loss	≤ 0.10 dB, DC to 4 GHz
Error from nominal phase ¹	≤ 1.0°, DC to 4 GHz

¹ The nominal phase is defined by the Offset Delay, the Offset Loss and the Short Inductance.

Mechanical data

Mating cycles	≥ 500
Maximum torque	6.78 Nm
Recommended torque	2.00 Nm
Gauge	0.00 mm to 0.10 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	75 Ω
Offset Delay	53.371 ps
Length (electrical) / Offset Length	16.00 mm
Offset Loss	1.30 GΩ/s
Loss	0.0080 dB/√GHz
Short Inductance ²	

² Short Inductances are determined individually for each Short circuit and are documented in a Calibration Certificate.

Environmental data

Operating temperature range ³	+20 °C to +26 °C
Rated temperature range of use ⁴	0 °C to +50 °C
Storage temperature range	- 40 °C to +85 °C

RoHS compliant

³ Temperature range over which these specification are valid.

⁴ This range is underneath and above the operating temperature range, within the short circuit 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 individually optimized and 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 40.5 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	14.04.15	Markus Müller	25.08.16	i00	16-1390	Marion Striegler	25.08.16

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