



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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