



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.