



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

Interface

According to IEC 61169-40
Mechanically compatible with RPC-1.85

Documents

Application note AN001 "Calibration Services"

Material and plating

Connector parts
Center conductor
Outer conductor
Dielectric

Material
CuBe
Stainless steel
PS

Plating
Gold, min. 1.27 µm, over nickel
Passivated

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RF_35/05:10/6.0

Electrical data

Frequency range	DC to 50 GHz
Return loss	≥ 30 dB, DC to 4 GHz ≥ 24 dB, 4 to 26.5 GHz ≥ 17 dB, 26.5 GHz to 50 GHz

Mechanical data

Mating cycles	≥ 500
Maximum torque	1.65 Nm
Recommended torque	0.90 Nm
Gauge	0.00 mm to 0.03 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	63.3110 ps
Length (electrical) / Offset Length	18.98 mm
Offset Loss	4.00 G Ω /s
Loss	0.0220 dB/ $\sqrt{\text{GHz}}$

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 specifications 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.