



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

Interface

According to IEC 60169-23
Mechanically compatible with RPC-2.92 and SMA

Documents

Application note AN001 "Calibration Services"

Material and plating

Connector parts

Center conductor
Outer conductor

Material

CuBe or equiv.
Brass

Plating

Gold, min. 1.27 µm, over nickel
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RF_35/09_14/6.2

Electrical data

Frequency range	DC to 26.5 GHz
Return loss	≤ 0.10 dB, DC to 4 GHz
	≤ 0.12 dB, 4 GHz to 8 GHz
	≤ 0.20 dB, 8 GHz to 26.5 GHz
Error from nominal phase ¹	≤ 1.0°, DC to 4 GHz
	≤ 1.5°, 4 GHz to 8 GHz
	≤ 2.0°, 8 GHz to 26.5 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	1.70 Nm
Recommended torque	0.90 Nm
Gauge	0.00 mm to 0.04 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	16.6782 ps
Length (electrical) / Offset Length	5.00 mm
Offset Loss	2.36 G Ω /s
Loss	0.0111 dB/ $\sqrt{\text{GHz}}$
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.