



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

Interface

RPC-N 50 Ω according to
BNC 50 Ω according to

IEC 60169-16
IEC 60169-8, MIL-PRF-39012, CECC 22120

Documents

Application note

AN001 "Calibration Services"

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

CuBe
Stainless steel
PTFE; PPE

Plating

Gold, min. 1.27 µm, over nickel
Passivated

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Electrical data

Frequency	DC to 4 GHz
Return loss	≥ 36 dB, DC to 2 GHz ≥ 30 dB, 2 GHz to 4 GHz

Mechanical data

Mating cycles	≥ 500	
	RPC-N 50 Ω	BNC 50 Ω
Maximum torque	1.70 Nm	
Recommended torque	1.10 Nm	
Gauge	5.18 mm to 5.26 mm	5.21 mm to 5.28 mm

General standard definition

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	105.907 ps
Length (electrical) / Offset Length	31.75 mm
Offset Loss	2.5 GΩ/s
Loss	0.0230 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 specifications are valid.

² This range is underneath and above the operating temperature range, within the open circuit is fully functional and could be used without damage.

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