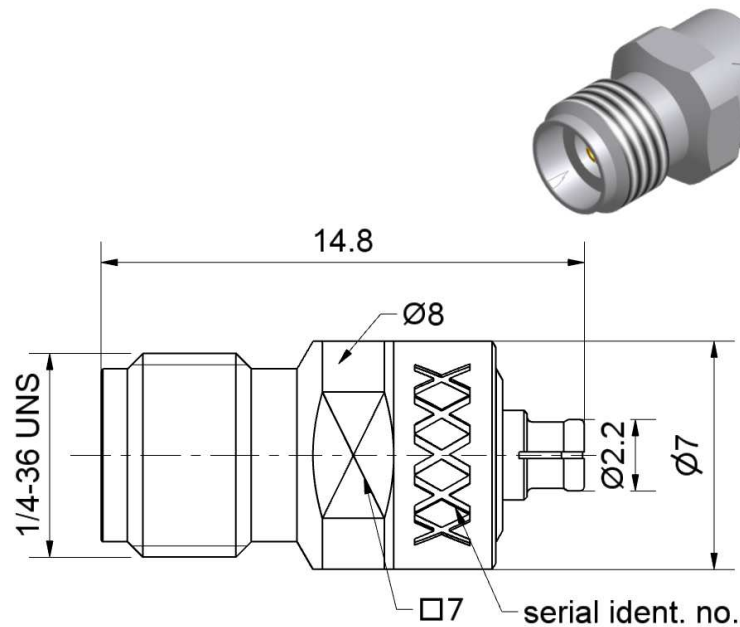




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

RPC-2.92 side

According to

Mechanically compatible with

IEC 61169-35

RPC-3.50 and SMA

Mini-SMP side

According to

Mechanically compatible with

MIL-STD-348

GPPO™ (Gilbert Engineering Co., Inc.)
and SSMP™ (Connectors Devices, Inc.)

Documents

Application note

AN001 "Calibration Services"

Material and plating

Connector parts

Center conductor

Outer conductor RPC-2.92

Outer conductor Mini-SMP

Dielectric

Material

CuBe

Stainless steel

CuBe

PS

Plating

Gold, min. 1.27 µm, over nickel

Passivated

Gold, min. 1.27 µm, over nickel

Electrical data

Frequency	DC to 40 GHz
Return loss	≥ 28 dB, DC to 18 GHz ≥ 20 dB, 18 GHz to 40 GHz

Mechanical data

	RPC-2.92	Mini-SMP
Mating cycles	≥ 500	≥ 100 if mating part is full detent ≥ 500 if mating part is smooth bore
Maximum torque	1.70 Nm	
Recommended torque	0.90 Nm	
Engagement force		Full detent 19 N typical Smooth bore 11 N typical
Disengagement force		Full detent 29 N typical Smooth bore 11 N typical
Gauge	0.00 mm to 0.08 mm	0.00 mm to 0.08 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_0 / Impedance / Z_0	50 Ω
Offset Delay	46.1423 ps
Length (electrical) / Offset Length	13.83 mm
Offset Loss	3.70 G Ω /s
Loss	0.0148 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 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 Rosenberger standards**, national / international standards are not available. Model based standard definitions are reported in an Agilent/Keysight, Rohde & Schwarz and Anritsu compatible VNA format.

Accredited Calibration

Not available.

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 2.6 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	03.11.09	Markus Müller	04.11.16	c00	16-1390	Marion Striegler	04.11.16

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