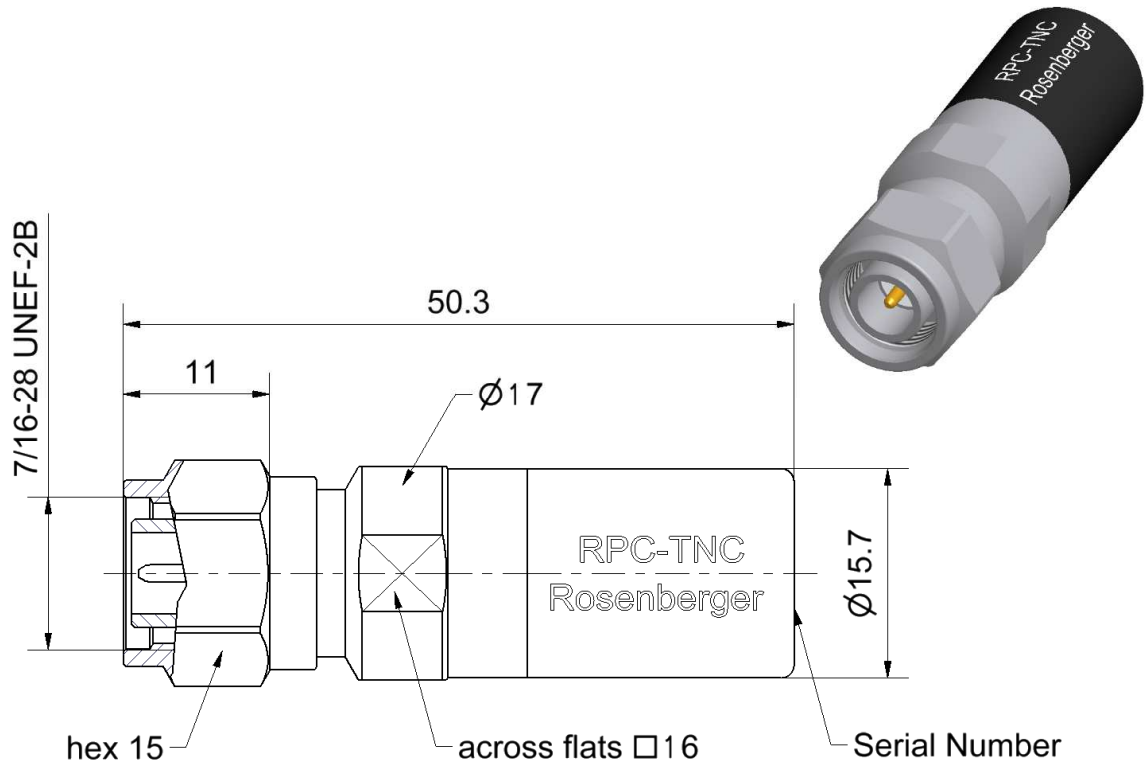




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to

IEC 61169-26

Documents

Application note

AN001 "Calibration Services"

Material and plating

Connector parts

Center conductor
Outer conductor
Coupling nut
Dielectric

Material

CuBe
Stainless steel
Stainless steel
PTFE / PS

Plating

Gold, min. 1.27 µm, over nickel
Passivated
Passivated

Electrical data

Frequency range	DC to 18 GHz
Return loss	≤ 0.50 dB, DC to 4 GHz ≤ 1.00 dB, 4 GHz to 18 GHz
Error from nominal phase ¹	$\leq 3.5^\circ$, DC to 4 GHz $\leq 5.0^\circ$, 4 GHz to 8 GHz $\leq 8.0^\circ$, 8 GHz to 18 GHz

¹ The nominal phase is defined by the Offset Delay, the Offset Loss and the Fringing Capacitances.

Mechanical data

Mating cycles	≥ 500
Maximum torque	1.70 Nm
Recommended torque	0.55 Nm
Gauge	5.28 mm to 5.38 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	58.374 ps
Length (electrical) / Offset Length	17.50 mm
Offset Loss	1.20 G Ω /s
Loss	0.0122 dB/ $\sqrt{\text{GHz}}$
Fringing Capacitances ²	

² Fringing Capacitances are determined individually for each open 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
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³ Temperature range over which these specification are valid.

⁴ 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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RF_35/09.14/6.2

Technical Data Sheet				Rosenberger											
RPC-TNC		Open Circuit Plug		06S12L-000S3											
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 individually optimized and 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 Recommendation12 months Packing Standard1 pce in box Weight47 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		Rev.		Engineering change number		Name		Date					
Herbert Babinger		02.12.04		Markus Müller		22.04.16		c00		16-s067		Marcel Panicke		22.04.16	
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de								Tel. : +49 8684 18-0 Email : info@rosenberger.de				Page 3 / 3			