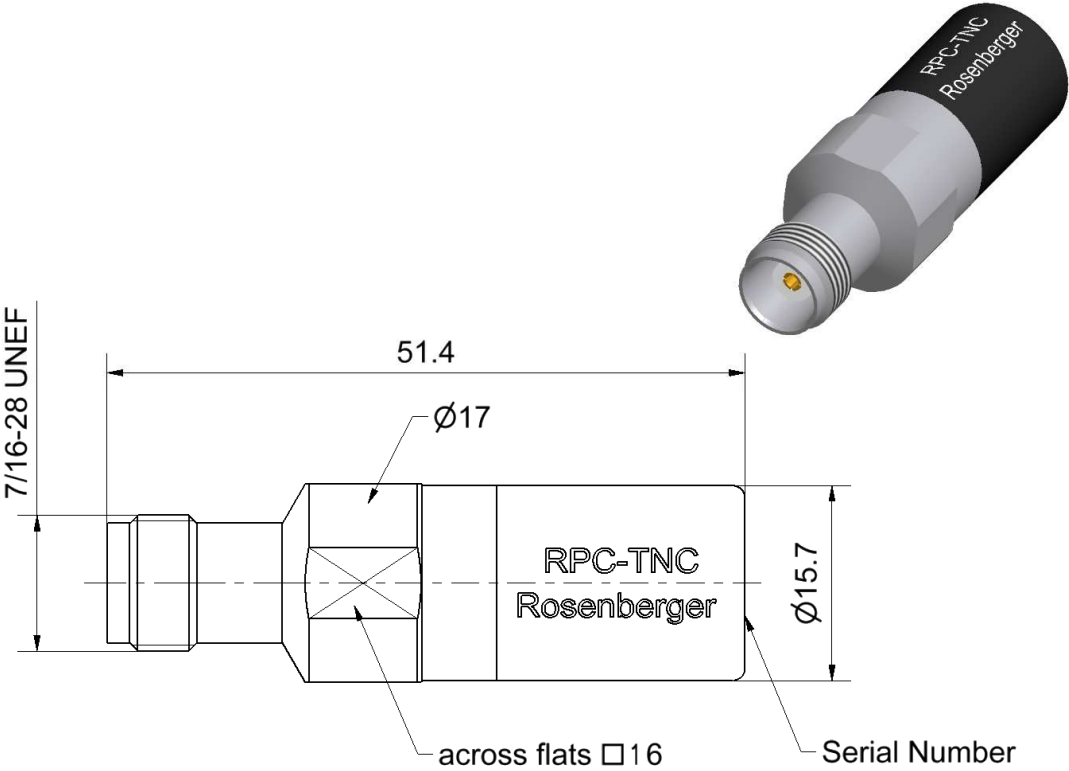


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RF_35/09.14/6.2

Technical Data Sheet		Rosenberger
RPC-TNC	Short Circuit Jack	06K12S-000S3
		
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 Dielectric Material CuBe Stainless steel PTFE Plating Gold, min. 1.27 µm, over nickel Passivated		
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
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Electrical data

Frequency range	DC to 18 GHz
Return loss	≤ 0.50 dB, DC to 4 GHz ≤ 0.75 dB, 4 GHz to 8 GHz ≤ 1.00 dB, 8 GHz to 18 GHz
Error from nominal phase ¹	$\leq 1.0^\circ$, DC to 4 GHz $\leq 3.5^\circ$, 4 GHz to 8 GHz $\leq 7.0^\circ$, 8 GHz to 18 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	0.55 Nm
Gauge	5.18 mm to 5.28 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	66.713 ps
Length (electrical) / Offset Length	20.00 mm
Offset Loss	1.20 G Ω /s
Loss	0.0139 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
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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 short circuit is fully functional and could be used without damage.

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RPC-TNC		Short Circuit Jack		06K12S-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 Recommendation 12 months Packing Standard Weight 1 pce in box 41 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
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