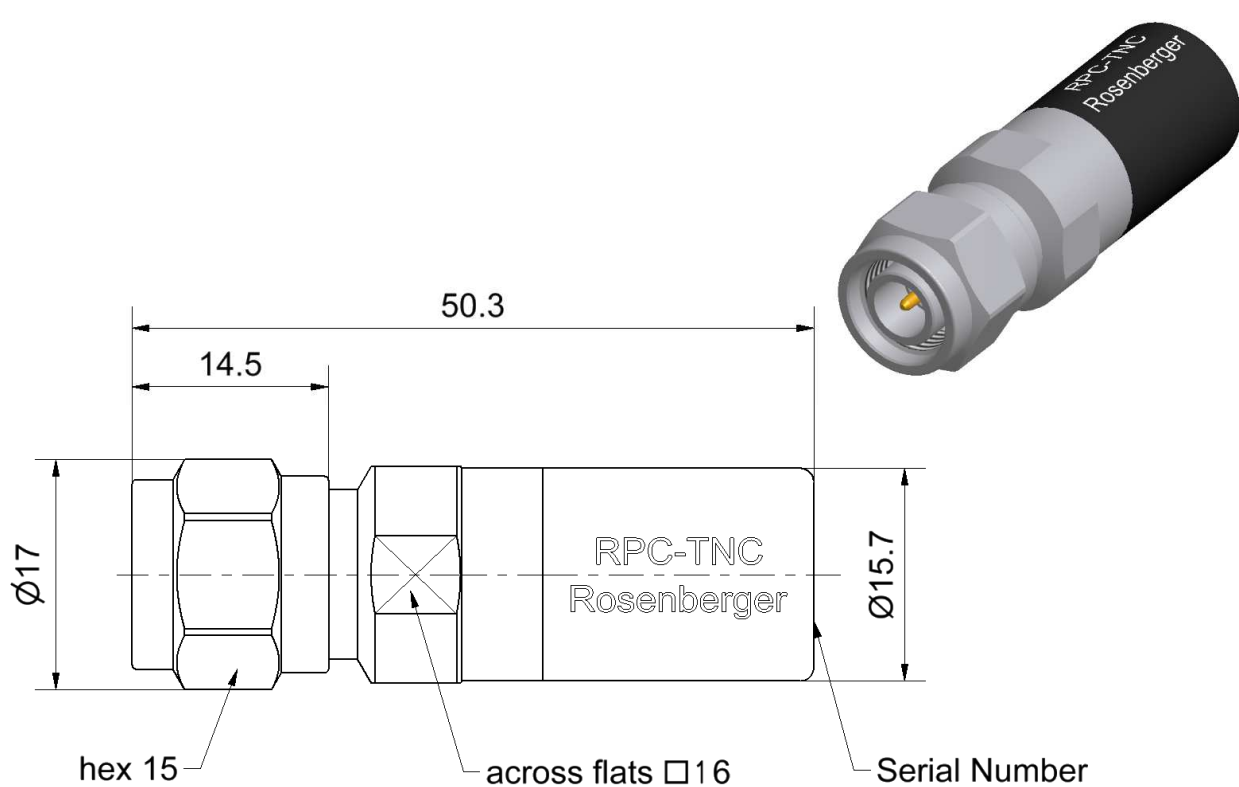


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Technical Data Sheet		Rosenberger																		
RPC-TNC	Calibration Load Plug	06S150-C10S3																		
 Technical drawing and 3D model of the RPC-TNC Calibration Load Plug. The drawing shows a side view with dimensions: total length 50.3 mm, distance from front flange to center of the plug 14.5 mm, outer diameter 17 mm, and a hexagonal section with 15 flats. The plug itself is labeled 'RPC-TNC' and 'Rosenberger'. A 3D model shows the plug with a serial number '06S150-C10S3' and 'Rosenberger' printed on it.																				
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 <table><tr><td>Connector parts</td><td>Material</td><td>Plating</td></tr><tr><td>Center conductor</td><td>CuBe</td><td>Gold, min. 1.27 µm, over nickel</td></tr><tr><td>Outer conductor</td><td>Stainless steel</td><td>Passivated</td></tr><tr><td>Coupling nut</td><td>Stainless steel</td><td>Passivated</td></tr><tr><td>Dielectric</td><td>PTFE / PPE</td><td></td></tr><tr><td>Substrate</td><td>Al₂O₃</td><td></td></tr></table>			Connector parts	Material	Plating	Center conductor	CuBe	Gold, min. 1.27 µm, over nickel	Outer conductor	Stainless steel	Passivated	Coupling nut	Stainless steel	Passivated	Dielectric	PTFE / PPE		Substrate	Al ₂ O ₃	
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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 1 / 3																		

Electrical data

Frequency range	DC to 18 GHz
Return loss	≥ 35 dB, DC to 4 GHz ≥ 25 dB, 4 GHz to 18 GHz
DC Resistance	50 Ω ± 0.5 Ω
Power handling	≤ 1 W

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_0 / Impedance / Z_0	50 Ω
Offset Delay	0.0000 ps
Length (electrical) / Offset Length	0.00 mm
Offset Loss	0.00 GΩ/s
Loss	0.0000 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
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¹ Temperature range over which these specification are valid.

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

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Technical Data Sheet				Rosenberger				
RPC-TNC		Calibration Load Plug		06S150-C10S3				
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 Weight 1 pce in box 50 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		14.12.04	Markus Müller	22.04.16	d00	15-1806	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