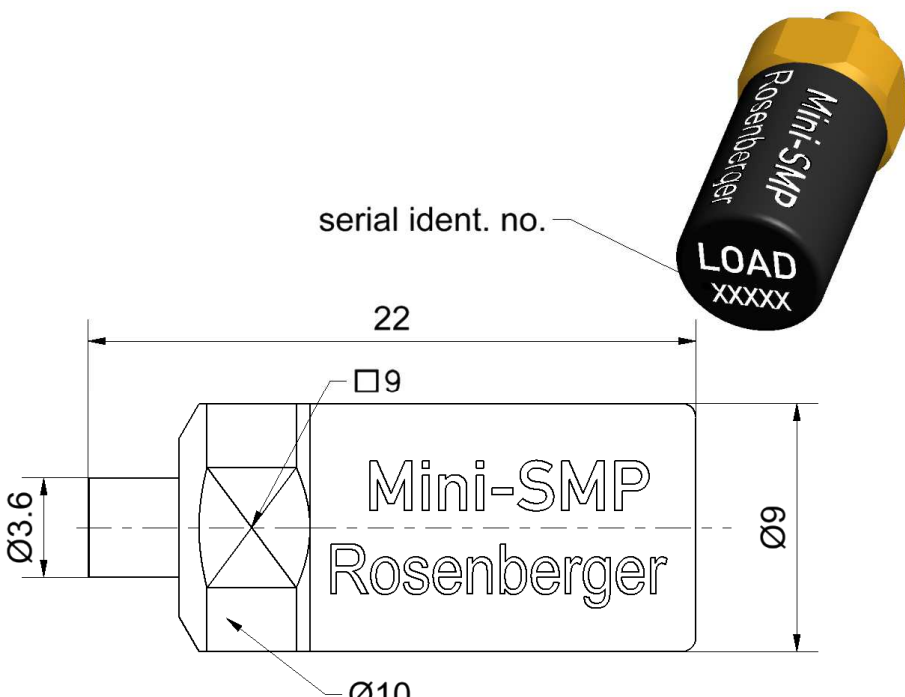


Technical Data Sheet		Rosenberger
Mini-SMP	Calibration Load Plug - Full Detent	18S150-C10D3
 serial ident. no. 22 Ø9 Ø3.6 Mini-SMP Rosenberger Ø10 Ø6		
All dimensions are in mm; tolerances according to ISO 2768 m-H		
Interface According to		MIL-STD-348 Mateable with GPPO™ (Gilbert Engineering Co., Inc.) and SSMP™ (Connectors Devices, Inc.)
Documents Application note		AN001 "Calibration Services"
Material and plating		
Connector parts		Material
Center conductor		CuBe
Outer conductor		CuBe
Dielectric		PEEK
Substrate		Al ₂ O ₃
		Plating
		Gold, min. 1.27 µm, over nickel
		Gold, min. 1.27 µm, over nickel
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 40 GHz
Return loss	≥ 36 dB, DC to 4 GHz ≥ 28 dB, 4 GHz to 18 GHz ≥ 23 dB, 18 GHz to 26.5 GHz ≥ 20 dB, 26.5 GHz to 40 GHz
DC Resistance	$50\ \Omega \pm 0.5\ \Omega$
Power handling	≤ 0.5 W

Mechanical data

Mating cycles	≥ 100
Engagement force	
- Full detent	19 N typical
Disengagement force	
- Full detent	29 N typical
Gauge	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	$50\ \Omega$
Offset Delay	0.0000 ps
Length (electrical) / Offset Length	0.00 mm
Offset Loss	0.00 GΩ/s
Loss	0.0000 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 load is fully functional and could be used without damage.

Technical Data Sheet		Rosenberger							
Mini-SMP	Calibration Load Plug - Full Detent	18S150-C10D3							
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 <table><tr><td>Recommendation</td><td>12 months</td></tr></table> Packing <table><tr><td>Standard</td><td>1 pce in box</td></tr><tr><td>Weight</td><td>5.5 g/pce</td></tr></table>				Recommendation	12 months	Standard	1 pce in box	Weight	5.5 g/pce
Recommendation	12 months								
Standard	1 pce in box								
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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	12.10.09	Markus Müller	07.11.16	d00	15-1674	Marion Striegler	07.11.16		
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