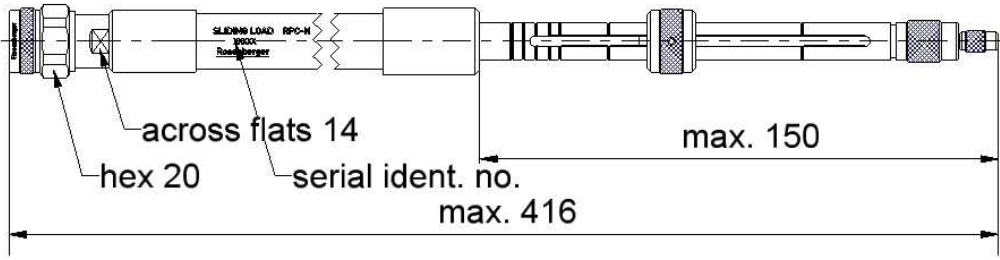


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Technical Data Sheet		Rosenberger															
RPC-N 50 Ω	Sliding Load Plug	05S150-G300															
  All dimensions are in mm; tolerances according to ISO 2768 m-H Interface According to IEC 61169-16 Documents Application note AN001 "Calibration Services" Material and plating <table><thead><tr><th>Connector parts</th><th>Material</th><th>Plating</th></tr></thead><tbody><tr><td>Center conductor</td><td>CuBe</td><td>Gold, min. 1.27 μm, over nickel</td></tr><tr><td>Outer conductor</td><td>Brass</td><td>Gold, min. 1.27 μm, over nickel</td></tr><tr><td>Coupling nut</td><td>Stainless steel</td><td>Passivated</td></tr><tr><td>Body</td><td>Aluminum</td><td>black anodized</td></tr></tbody></table>			Connector parts	Material	Plating	Center conductor	CuBe	Gold, min. 1.27 μm, over nickel	Outer conductor	Brass	Gold, min. 1.27 μm, over nickel	Coupling nut	Stainless steel	Passivated	Body	Aluminum	black anodized
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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															
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Electrical data

Frequency range	2 GHz to 18 GHz
Return loss	≥ 35 dB, 2 GHz to 18 GHz
Power handling	≤ 1 W
Air line accuracy	≥ 55 dB
Repeatability of sliding position	≥ 65 dB, 2 GHz to 8 GHz ≥ 60 dB, 8 GHz to 18 GHz

Mechanical data

Mating cycles	≥ 500
Maximum torque	1.70 Nm
Recommended torque	1.10 Nm
Gauge	adjustable

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
Min. Frequency	2 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 sliding load is fully functional and could be used without damage.

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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 national / international standards. 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 Recommendation12 months Packing Standard1 pce in pipe Weight320 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
Kerstin Herzog	02.11.05	Martin Moder	29.01.15	e00	14-1492	Herbert Babinger	29.01.15
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