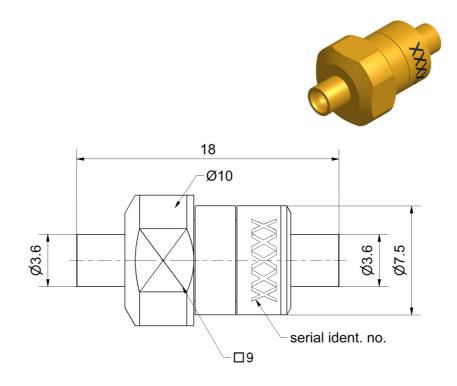
Technical Data Sheet		Rosenberger		
Mini-SMP	Calibration Adaptor Plug/Plug	18S121-S20D3		



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

Interface

According to

MIL-STD-348
Mateable with GPPOTM (Gilbert Engineering Co., Inc.) and SSMPTM (Connectors Devices, Inc.)

Documents

Application note

AN001 "Calibration Services"

Material and plating Connector parts

Center conductor
Outer conductor
Dielectric

Material CuBe CuBe PEEK

Gold, min. 1.27 μm , over nickel Gold, min. 1.27 μm , over nickel

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Plating

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Rosenberger **Technical Data Sheet** Calibration Adaptor Mini-SMP 18S121-S20D3

Electrical data

Frequency range DC to 40 GHz

Return loss ≥ 24 dB, DC to 18 GHz

≥ 16 dB, 18 GHz to 40 GHz

Mechanical data

Mating cycles ≥ 100

Plug/Plug

Engagement force

- Full detent 19 N typical

Disengagement force

- Full detent 29 N typical

0.00 mm to 0.08 mm Gauge

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 Ω Offset Delay 50.0346 ps Length (electrical) / Offset Length 15.00 mm Offset Loss $4.00 \, \text{G}\Omega/\text{s}$

Loss 0.0348 dB/√GHz

Environmental data

+20 °C to +26 °C Operating temperature range¹ Rated temperature range of use² 0 °C to +50 °C Storage temperature range - 40 °C to +85 °C

RoHS compliant

Temperature range over which these specification are valid.

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

Technical Data Sheet		Rosenberger		
Mini-SMP	Calibration Adaptor Plug/Plug	18S121-S20D3		

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 5.0 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
Marcel Panicke	12.10.09	Markus Müller	07.11.16	f00	15-1674	Marion Striegler	07.11.16

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