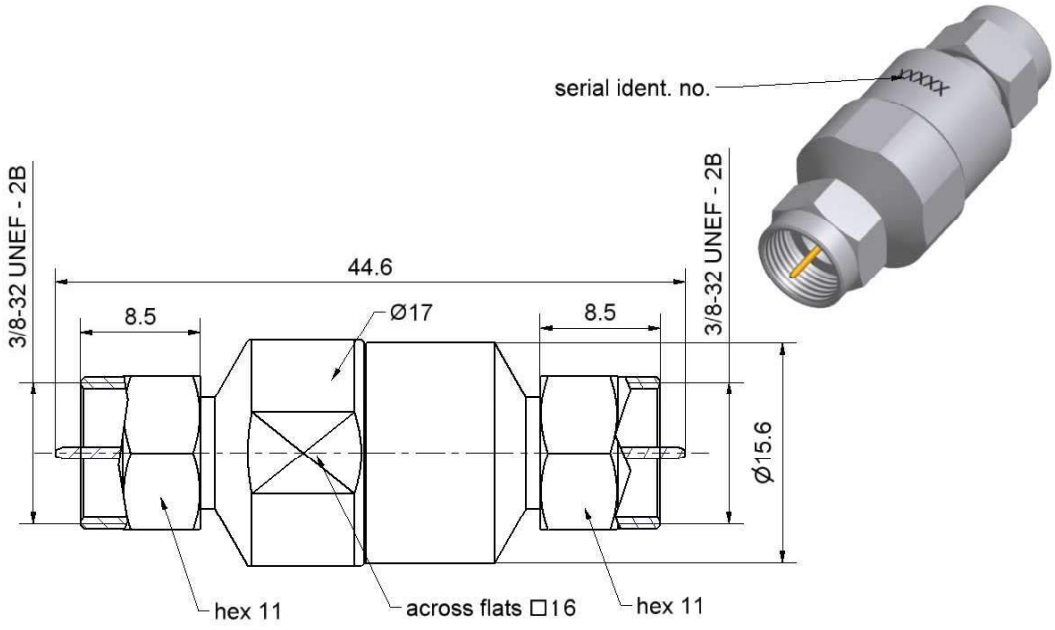
Technical Data Sheet		Rosenberger
F 75 Ω	Calibration Adaptor Plug/Plug	**74S121-S20S3**



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

Interface

According to	IEC 169-24 ; EIA-550

Documents

Application note	AN001 “Calibration Services”

Material and plating

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	PS	

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

Electrical data

Frequency range	DC to 4 GHz
Return loss	≥ 32 dB, DC to 4 GHz

Mechanical data

Mating cycles	≥ 500
Maximum torque	6.78 Nm
Recommended torque	2.00 Nm
Gauge	0.00 mm to 0.10 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	75 Ω
Offset Delay	108.740 ps
Length (electrical) / Offset Length	32.60 mm
Offset Loss	1.30 GΩ/s
Loss	0.0082 dB/ $\sqrt{GHz}$

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 adaptor 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 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	1 pce in box
Weight	34.7 g/pce

Draft	Date	Approved	Date
Herbert Babinger	04.05.15	Markus Müller	25.08.16

Rev.	Engineering change number	Name	Date
i00	16-1390	Marion Striegler	25.08.16

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