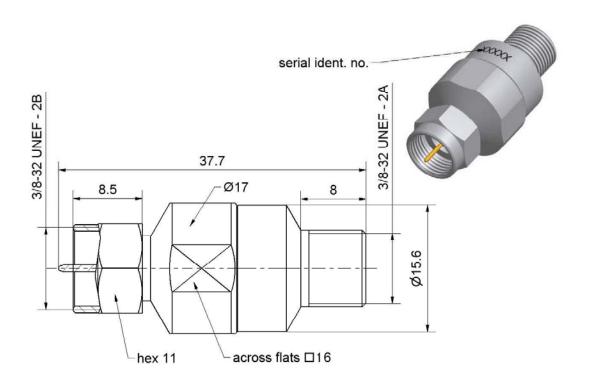
Technical Data Sheet

Rosenberger

F 75 Ω

Calibration Adaptor Plug/Jack

74S121-K20S3



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

Interface

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According to

IEC 169-24; EIA-550

Documents

Application note

AN001 "Calibration Services"

Material and plating

Connector parts

Center conductor Outer conductor Coupling nut Dielectric Material

rial Plating
Gold, min. 1.27 μm, over nickel

CuBe Stainless steel Stainless steel

Passivated Passivated

PS

RF 35/09.14/6.2

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Electrical data

Technical Data Sheet

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

Mechanical data

 $\begin{array}{ll} \text{Mating cycles} & \geq 500 \\ \text{Maximum torque} & 6.78 \text{ Nm} \\ \text{Recommended torque} & 2.00 \text{ Nm} \\ \end{array}$

Accommodate male contact diameter 0.76 mm to 0.86 mm 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.

 $\begin{array}{lll} \text{Offset Z_{\circ} / Impedance / Z_{\circ}} & 75 \ \Omega \\ \text{Offset Delay} & 108.740 \ \text{ps} \\ \text{Length (electrical) / Offset Length} & 32.60 \ \text{mm} \\ \text{Offset Loss} & 1.30 \ \text{G}\Omega/\text{s} \\ \text{Loss} & 0.0082 \ \text{dB/} \sqrt{\text{GHz}} \end{array}$

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 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 Weight

1 pce in box 28.7 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	
Herbert Babinger	04.05.15	Markus Müller	29.08.16	

Rev.Engineering change numberNameDatef0016-1390Marion Striegler29.08.16

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