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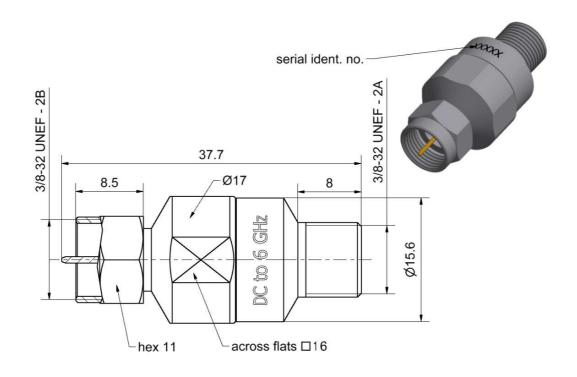
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Rosenberger **Technical Data Sheet**

Calibration Adaptor F 75 Ω Plug/Jack

74S121-K21S3



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

Interface

According to

IEC 61169-24¹, EIA-550

Documents

Application note

AN001 "Calibration Services"

Material and plating

Connector parts Center contact Outer contact Coupling nut Dielectric

Material **Plating**

Gold, min. 1.27 µm, over nickel CuBe **Passivated** Stainless steel Stainless steel **Passivated**

PS

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¹ Accepts only limited pin diameter, see "Mechanical data".

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RF 35/09.14/6.2

Technical Data Sheet

Rosenberger

F 75 Ω

Calibration Adaptor Plug/Jack

74S121-K21S3

Electrical data

Frequency Return loss DC to 6 GHz

 \geq 32 dB, DC to 4 GHz \geq 30 dB, 4 GHz to 6 GHz

Mechanical data

Mating cycles ≥ 1000 Maximum torque6.78 NmRecommended torque2.00 NmNominal pin diameter0.81 mm

Permitted male pin diameter² 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.

Offset Z_{\circ} / Impedance / Z_{\circ} 75 Ω Offset Delay 108.408 ps Length (electrical) / Offset Length 32.50 mm Offset Loss 2.40 $G\Omega/s$

Loss 0.0151 dB/ $\sqrt{\text{GHz}}$ Line Loss @ 1GHz 0.0005 dB/mm

Environmental data

Operating temperature range³ +20 °C to +26 °C Rated temperature range of use⁴ 0 °C to +50 °C Storage temperature range -40 °C to +85 °C

RoHS compliant

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² Connecting a F plug with larger male pin diameter will damage female contact fingers of this adaptor. Use "full range adaptor" 74S121-K22S3 instead.

³ Temperature range over which these specification are valid.

⁴ 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 28.0 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	08.08.18	Markus Müller	09.05.19		b00	19-0897	Marion Striegler	(09.05.19
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