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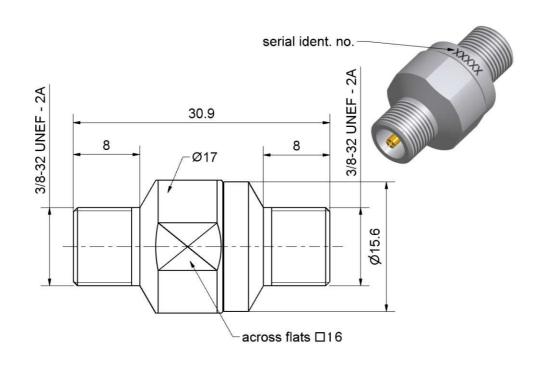
# R\_35/09.14/6.2

## Technical Data Sheet Rosenberger

F 75 Ω

Calibration Adaptor Jack/Jack

74K121-K20S3



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** 

Center conductor Outer conductor Dielectric

### Material

CuBe

Stainless steel PS

### **Plating**

Gold, min. 1.27 µm, over chemical nickel

Passivated

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# F\_35/09.14/6.2

### **Technical Data Sheet**

## Rosenberger

F 75 Ω

Calibration Adaptor Jack/Jack

74K121-K20S3

### Electrical data

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

### Mechanical data

Mating cycles≥ 500Maximum torque6.78 NmRecommended torque2.00 Nm

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 $Z_{\rm o}$ / Impedance / $Z_{\rm o}$} & 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} \\ \end{array}$ 

Loss  $0.0082 \text{ dB}/\sqrt{\text{GHz}}$ 

### **Environmental data**

Operating temperature range<sup>1</sup>
Rated temperature range of use<sup>2</sup>
Storage temperature range

+20 °C to +26 °C 0 °C to +50 °C -40 °C to +85 °C

RoHS compliant

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<sup>&</sup>lt;sup>1</sup> Temperature range over which these specification are valid.

<sup>&</sup>lt;sup>2</sup> 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 22.7 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		Rev.	Engineering change number	Name		Date
Herbert Babinger	04.05.15	Martin Moder	08.05.15		g00	14-1492	Herbert Babinge	er	08.05.15
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