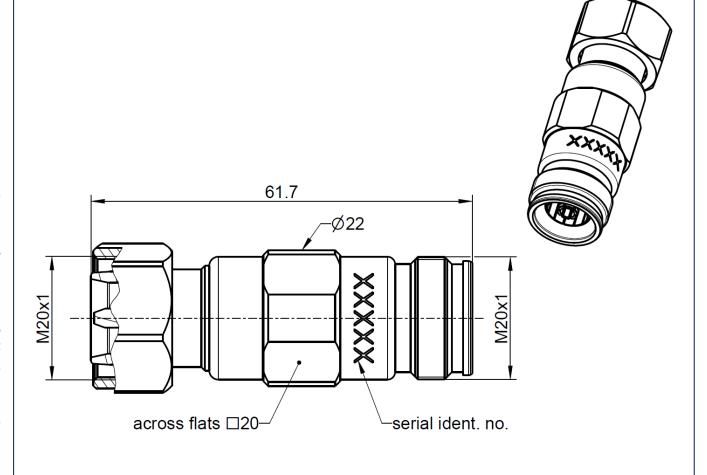
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All dimensions are in mm

## Interface

according to

IEC 61169-54

## **Documents**

Application note

AN001 "Calibration Services"

## Material and plating

## **Connector parts**

Center conductor - plug Center conductor - jack Outer conductor - plug Outer conductor - jack

Body Coupling nut Dielectric

## Material

**Brass** CuBe Stainless steel CuBe or equiv.

Stainless steel Stainless steel

PTFE

## **Plating**

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

Passivated

AuroDur®, gold plated

**Passivated Passivated** 

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# RFB00035/05.23/6.4

## **Technical Data Sheet**

## Rosenberger

4.3-10

Calibration Adaptor Plug/Jack

64S121-K20S3

## Electrical data

Frequency range Return loss DC to 12 GHz ≥ 35 dB, DC to 4 GHz ≥ 32 dB, 4 GHz to 6 GHz ≥ 25 dB, 6 GHz to 12 GHz

## Mechanical data

 $\begin{array}{ll} \text{Mating cycles} & \geq 100 \\ \text{Maximum torque} & 5 \text{ Nm} \\ \text{Recommended torque} & 2 \text{ Nm} \\ \end{array}$ 

Gauge - plug 2.80 mm to 2.90 mm Gauge - jack 3.10 mm to 3.20 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}{ll} \text{Offset $Z_{\text{o}}$ / Impedance / $Z_{\text{o}}$} & 50 \ \Omega \\ \text{Offset Delay} & 189.466 \ \text{ps} \\ \text{Length (electrical) / Offset Length} & 56.80 \ \text{mm} \\ \text{Offset Loss} & 2.50 \ \text{G}\Omega/\text{s} \\ \end{array}$ 

Loss  $0.0411 \, dB / \sqrt{GHz}$ 

## **Environmental data**

Operating temperature range<sup>1</sup> +20 °C to +26 °C Rated temperature range of use<sup>2</sup> 0 °C to +50 °C Storage temperature range -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.

# Technical Data Sheet Rosenberger 4.3-10 Calibration Adaptor Plug/Jack 64S121-K20S3

## **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 national / international standards. Model based standard definitions are reported in Keysight / Agilent, Rohde & Schwarz and Anritsu compatible VNA formats.

## **Accredited Calibration**

Not available.

Weight

For further, more detailed information see application note AN001 on the Rosenberger homepage.

## Calibration interval12 monthsRecommendation12 months

108 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date		Rev.	Engineering change number	Name	Date
M. Panicke	11.02.16	M. Hantschel	22.11.24		c00	24-2048	D. d'Argent	22.11.24

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