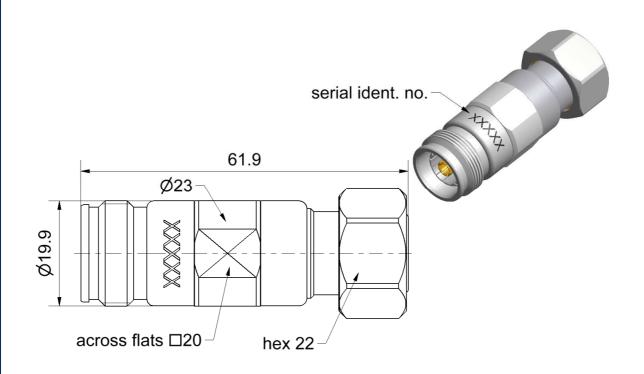
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4.3-10 Calibration Adaptor Plug/Jack

64S121-K20S3



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

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

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Coupling nut
Dielectric

Material

Brass Gold, min. 1.27 μ m, over nickel Gold, min. 1.27 μ m, over nickel Stainless steel CuBe or equiv. Gold, min. 1.27 μ m, over nickel Passivated Silver, 3-6 μ m

CuBe or equiv. Silver, 3-6 passivated Stainless steel Passivated Passivated

PTFE

Germany

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Plating

Page

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Technical Data Sheet

Rosenberger

4.3-10

Calibration Adaptor Plug/Jack

64S121-K20S3

Electrical data

Frequency range Return loss DC to 12 GHz \geq 35 dB, DC to 4 GHz \geq 32 dB, 4 GHz to 6 GHz \geq 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.

 $\begin{array}{ll} \text{Offset Z_{\circ} / Impedance / Z_{\circ}} & 50 \ \Omega \\ \text{Offset Delay} & 189.466 \ ps \\ \text{Length (electrical) / Offset Length} & 56.80 \ mm \\ \text{Offset Loss} & 2.50 \ G\Omega/s \end{array}$

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

Environmental data

Operating temperature range¹ +20 °C to +26 °C
Rated temperature range of use² 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.

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 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 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.

Draft	Date	Approved	Date		Rev.	Engineering change number	Name		Date
Marcel Panicke	11.02.16	Markus Müller	12.05.17		b00	17-0590	Marion Striegle	r	12.05.17
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