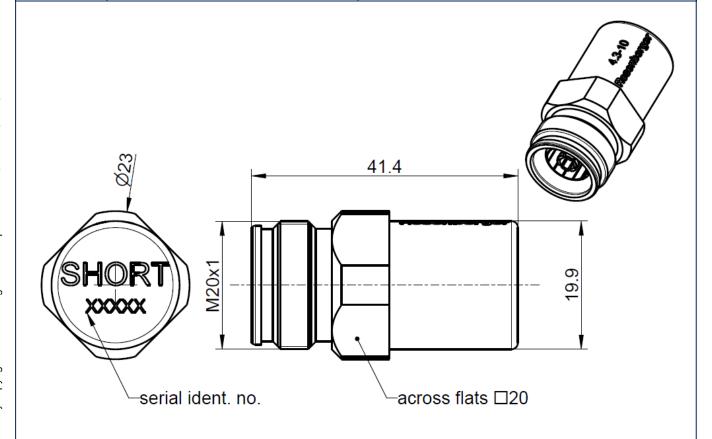
Technical Data Sheet	Rosenberger
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4.3-10

Short Circuit Jack

64K12S-000S3



All dimensions are in mm

Interface

according to

IEC 61169-54

Documents

Application note

AN001 "Calibration Services"

Material and plating

Connector parts

Center conductor Outer conductor

Material **Plating**

Gold, min. 1.27 µm, over nickel CuBe

AuroDur®, gold plated CuBe or equiv.

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Electrical data

Frequency range DC to 12 GHz

Return loss \leq 0.15 dB, DC to 12 GHz

Error from nominal phase¹ $\leq 2.0^{\circ}$, DC to 4 GHz

≤ 2.5°, 4 GHz to 6 GHz ≤ 3.0°, 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 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.

 $\begin{array}{lll} \mbox{Offset Z_{\circ} / Impedance / Z_{\circ}} & 50 \ \Omega \\ \mbox{Offset Delay} & 80.055 \ \mbox{ps} \\ \mbox{Length (electrical) / Offset Length} & 24.00 \ \mbox{mm} \\ \mbox{Offset Loss} & 0.70 \ \mbox{G}\mbox{/s} \\ \mbox{Loss} & 0.0097 \ \mbox{dB}\mbox{/} \mbox{GHz} \\ \end{array}$

Short Inductance²

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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¹ The nominal phase is defined by the Offset Delay, the Offset Loss and the Short Inductances.

² Short Inductances are determined individually for each short circuit and are documented in a Calibration Certificate.

³ Temperature range over which these specification are valid.

⁴ This range is underneath and above the operating temperature range, within the short circuit 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 national / international standards. Model based standard definitions are reported in Keysight / Agilent, Rohde & Schwarz and Anritsu compatible VNA formats.

Accredited Calibration

Not available.

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

Calibration intervalRecommendation12 months

Weight

52 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	02.09.16	M. Hantschel	22.11.24	d00	24-2048	D. d'Argent	22.11.24

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