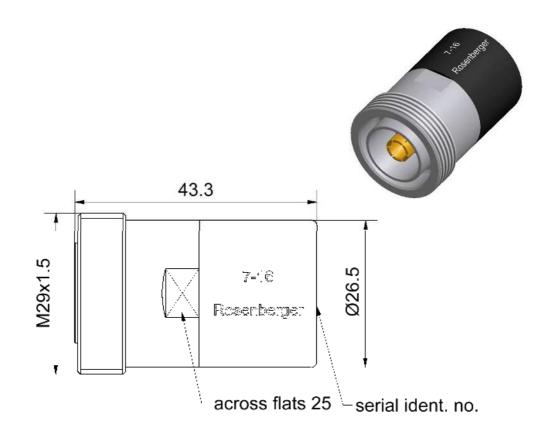
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All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to

IEC 61169-4, EN 122190, DIN 47223

Documents

Application note

AN001 "Calibration Services"

Material and plating Connector parts

Center conductor Outer conductor Dielectric

Material

CuBe Stainless steel PPE

Plating

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

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Technical Data Sheet

Rosenberger

7-16

Short Circuit Jack

60K12S-000S3

Electrical data

Frequency range DC to 8 GHz

Return loss \leq 0.10 dB, DC to 4 GHz

 \leq 0.15 dB, 4 GHz to 8 GHz

Error from nominal phase¹ \leq 1.0°, DC to 4 GHz

 \leq 1.5°, 4 GHz to 8 GHz

Mechanical data

Mating cycles ≥ 500 Maximum torque 35 Nm Recommended torque 2.26 Nm

1.78 mm to 1.82 mm Gauge

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_o / Impedance / Z_o Offset Delay 87.394 ps Length (electrical) / Offset Length 26.20 mm Offset Loss $0.50 \, \text{G}\Omega/\text{s}$ 0.0076 dB/√GHz

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

³ Temperature range over which these specification are valid.

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

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

⁴ 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 7-16 Short Circuit Jack 60K12S-000S3

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 individually optimized and reported in an Agilent/Keysight, Rohde & Schwarz and Anritsu compatible VNA format.

Accredited Calibration

Optional this calibration standard can be delivered with an Accredited Calibration (DAkkS) having the highest confidence in the traceability. The DAkkS Calibration Certificate issued reports individual calibration results in a complex format, traceable to national / international standards. Model based standard definitions are individually optimized and reported in an Agilent/Keysight, Rohde & Schwarz and Anritsu compatible VNA format as well as in a dense data set needed for data based standard definitions. The uncertainties are smaller than in a Factory Calibration.

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

Calibration interval	
Recommendation	12 months
Packing	
Standard	1 pce in box
Weight	87 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	03.08.15	Lars Ramtke	05.08.16		c00	16-1267	Marion Striegle	r	05.08.16
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