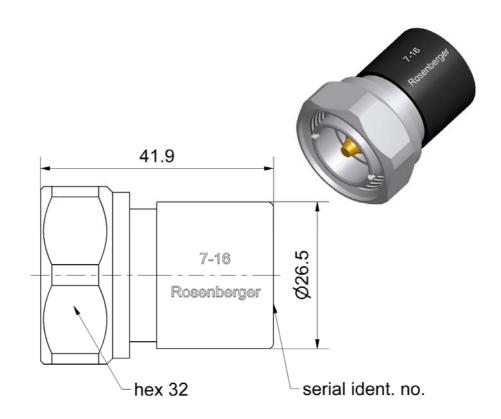
Technical Data Sheet		Rosenberger				
7-16	Calibration Load Plug	60S150-C10S3				



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

Coupling nut
Dielectric

Substrate

Material

CuBe Stainless steel

Stainless steel

PPE Al₂O₃

Germany

Plating

Gold, min. 1.27 µm, over nickel

Passivated Passivated

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1/3

Technical Data Sheet

Rosenberger

7-16

Calibration Load

60S150-C10S3

Electrical data

Frequency range DC to 8 GHz

Return loss \geq 40 dB, DC to 4 GHz \geq 38 dB, 4 GHz to 8 GHz

DC Resistance 50 $\Omega \pm 0.5 \Omega$ Power handling \leq 1 W

Mechanical data

 $\begin{array}{ll} \text{Mating cycles} & \geq 500 \\ \text{Maximum torque} & 35 \text{ Nm} \\ \text{Recommended torque} & 2.26 \text{ Nm} \\ \end{array}$

Gauge 1.72 mm to 1.76 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.

 $\begin{array}{ll} \mbox{Offset Z_{\circ} / Impedance / Z_{\circ}} & 50 \ \Omega \\ \mbox{Offset Delay} & 0.0000 \ ps \\ \mbox{Length (electrical) / Offset Length} & 0.00 \ mm \\ \mbox{Offset Loss} & 0.00 \ G\Omega/s \\ \mbox{Loss} & 0.0000 \ dB/\sqrt{GHz} \end{array}$

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.

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 7-16 Calibration Load Plug 60S150-C10S3

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

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 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 intervalRecommendation12 monthsPackingStandard1 pce in boxWeight105 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	Markus Müller	10.08.16		c00	16-1267	Marion Striegle	r	10.08.16
Rosenberger Hoo	hfrequenzt	echnik GmbH & Co	. KG	T-1				Page	

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Tel.: +49 8684 18-0 Email: info@rosenberger.de 3 / 3