



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  
Substrate

##### Material

CuBe  
Stainless steel  
PPE  
Al<sub>2</sub>O<sub>3</sub>

##### Plating

Gold, min. 1.27 µm, over nickel  
Passivated

## Electrical data

Frequency range	DC to 8 GHz
Return loss	≥ 40 dB, DC to 4 GHz ≥ 38 dB, 4 GHz to 8 GHz
DC Resistance	50 Ω ± 0.5 Ω
Power handling	≤ 1 W

## Mechanical data

Mating cycles	≥ 500
Maximum torque	35 Nm
Recommended torque	2.26 Nm
Gauge	1.78 mm to 1.82 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.

Offset $Z_0$ / Impedance / $Z_0$	50 Ω
Offset Delay	0.0000 ps
Length (electrical) / Offset Length	0.00 mm
Offset Loss	0.00 GΩ/s
Loss	0.0000 dB/√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>1</sup> Temperature range over which these specification are valid.

<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.

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Technical Data Sheet				Rosenberger									
7-16		Calibration Load Jack		60K150-C10S3									
<div>Declaration of calibration options</div> <div>Factory Calibration</div> <p>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 &amp; Schwarz and Anritsu compatible VNA format.</p> <div>Accredited Calibration</div> <p>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 &amp; 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.</p> <p>For further, more detailed information see application note AN001 on the Rosenberger homepage.</p> <div>Calibration interval</div> <table><tr><td>Recommendation</td><td>12 months</td></tr></table> <div>Packing</div> <table><tr><td>Standard</td><td>1 pce in box</td></tr><tr><td>Weight</td><td>99 g/pce</td></tr></table>								Recommendation	12 months	Standard	1 pce in box	Weight	99 g/pce
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