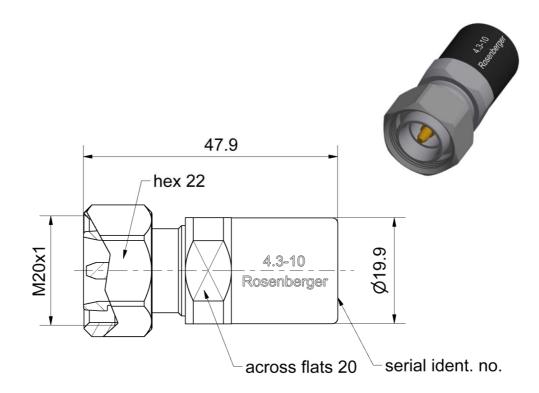
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All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface	
According to	IEC 61169-54

Documents	
Application note	AN001 "Calibration Services"

Material and plating		
Connector parts	Material	Plating
Center conductor	Brass	Gold, min. 1.27 µm, over nickel
Outer conductor	Stainless steel	Passivated
Coupling nut	Stainless steel	Passivated
Dielectric	PTFE	

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# RF 35/09.14/6.2

# Technical Data Sheet Rosenberger

4.3-10 Open Circuit

64S12L-000S3

# **Electrical data**

Frequency range DC to 12 GHz

Return loss  $\leq$  0.15 dB, DC to 12 GHz

Error from nominal phase<sup>1</sup>  $\leq 2.0^{\circ}$ , 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 2.80 mm to 2.90 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 $Z_{\rm o}$ / Impedance / $Z_{\rm o}$} & 50 \ \Omega \\ \mbox{Offset Delay} & 80.055 \ ps \\ \mbox{Length (electrical) / Offset Length} & 24.00 \ mm \\ \mbox{Offset Loss} & 0.70 \ G\Omega/s \\ \mbox{Loss} & 0.0097 \ dB/\sqrt{\mbox{GHz}} \end{array}$ 

Fringing Capacitances<sup>2</sup>

# **Environmental data**

Operating temperature range<sup>3</sup> +20 °C to +26 °C Rated temperature range of use<sup>4</sup> 0 °C to +50 °C Storage temperature range -40 °C to +85 °C

RoHS compliant

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<sup>&</sup>lt;sup>1</sup> The nominal phase is defined by the Offset Delay, the Offset Loss and the Fringing Capacitances.

<sup>&</sup>lt;sup>2</sup> Fringing Capacitances are determined individually for each open circuit and are documented in a Calibration Certificate.

<sup>&</sup>lt;sup>3</sup> Temperature range over which these specification are valid.

<sup>&</sup>lt;sup>4</sup> This range is underneath and above the operating temperature range, within the open circuit is fully functional and could be used without damage.

# Technical Data Sheet Rosenberger 4.3-10 Open Circuit Plug 64S12L-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**

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 62.0 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	02.09.16	Markus Müller	02.08.18		c00	18-1361	Marion Striegler		02.08.18
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