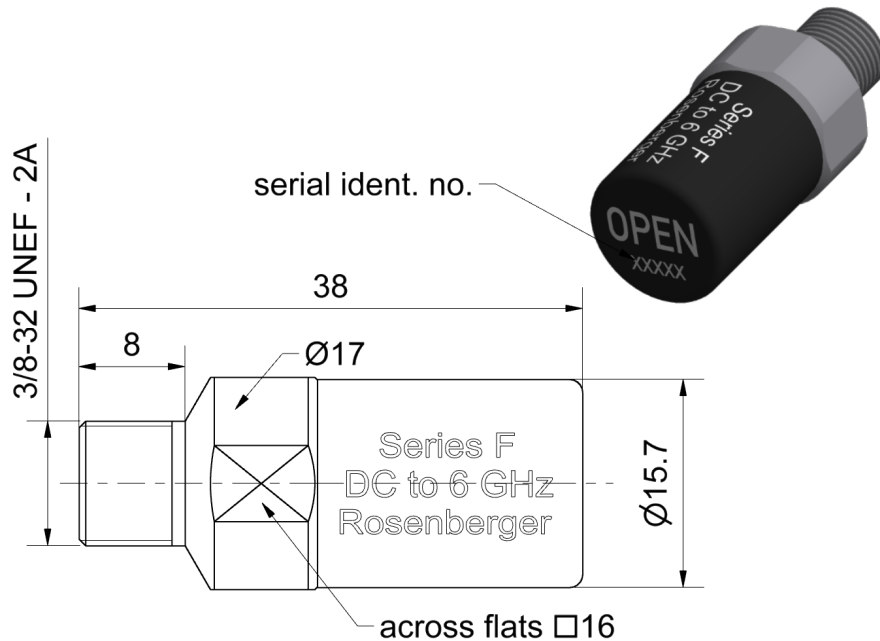




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to IEC 61169-24¹, EIA-550

¹ Accepts only limited pin diameter, see "Mechanical data".

Documents

Application note AN001 "Calibration Services"

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

CuBe
Stainless steel
PS

Plating

Gold, min. 1.27 µm, over nickel
Passivated

Electrical data

Frequency range	DC to 6 GHz
Return loss	≤ 0.10 dB, DC to 4 GHz ≤ 0.15 dB, 4 GHz to 6 GHz
Error from nominal phase ²	≤ 1.0°, DC to 4 GHz ≤ 1.5°, 4 GHz to 6 GHz

² The nominal phase is defined by the Offset Delay, the Offset Loss and the Fringing Capacitances.

Mechanical data

Mating cycles	≥ 1000
Maximum torque	6.78 Nm
Recommended torque	2.00 Nm
Permitted male pin diameter ³	0.76 mm to 0.86 mm
Gauge	0.00 mm to 0.10 mm

³ Connecting a F plug with larger male pin diameter will damage female contact fingers of this Open circuit. Use "full range adaptor" 74S121-K22S3 instead.

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	75 Ω
Offset Delay	53.370 ps
Length (electrical) / Offset Length	16.00 mm
Offset Loss	2.40 GΩ/s
Loss	0.0148 dB/√GHz
Fringing Capacitances ⁴	

⁴ Fringing Capacitances are determined individually for each Open circuit and are documented in a Calibration Certificate.

Environmental data

Operating temperature range ⁵	+ 20 °C to +26 °C
Rated temperature range of use ⁶	0 °C to +50 °C
Storage temperature range	- 40 °C to +85 °C

RoHS	compliant
------	-----------

⁵ Temperature range over which these specification are valid.

⁶ This range is underneath and above the operating temperature range, within the open circuit is fully functional and could be used without damage.

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG
RF_35/09.14/6.2

Technical Data Sheet				Rosenberger									
F 75 Ω		Open Circuit Jack		74K12L-001S3									
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 Rosenberger standards, national / international standards are not available. 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 <table><tr><td>Recommendation</td><td>12 months</td></tr></table> Packing <table><tr><td>Standard</td><td>1 pce in box</td></tr><tr><td>Weight</td><td>28.5 g/pce</td></tr></table>								Recommendation	12 months	Standard	1 pce in box	Weight	28.5 g/pce
Recommendation	12 months												
Standard	1 pce in box												
Weight	28.5 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	08.08.18	Markus Müller	09.05.19	b00	19-0897	Marion Striegler	09.05.19						
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de				Tel. : +49 8684 18-0 Email : info@rosenberger.de			Page 3 / 3						