

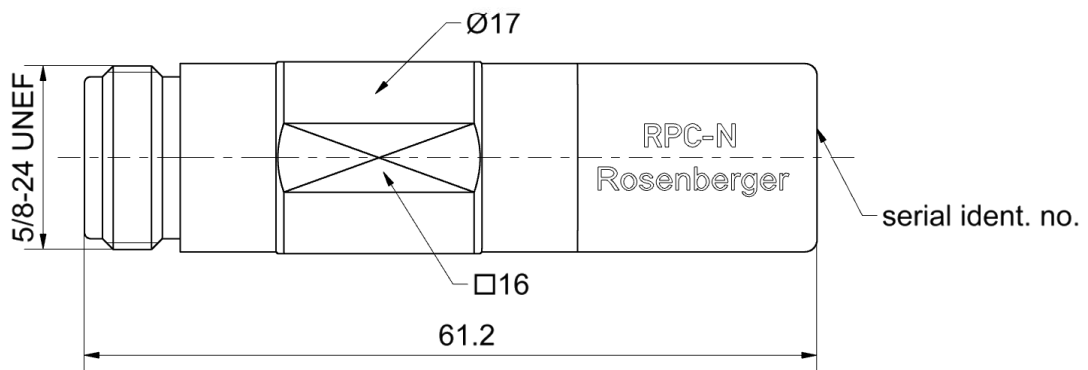
Technical Data Sheet

Rosenberger

RPC-N
50 Ω

Offset Short
Jack

05K12S-002S3



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

Interface

According to

IEC 61169-16

Documents

Application note

AN001 "Calibration Services"

Material and plating

Connector parts

Center conductor
Outer conductor

Material

CuBe
Stainless steel

Plating

Gold, min. 1.27 μm , over nickel
Passivated

Electrical data

Frequency range	DC to 18 GHz
Return loss	≤ 0.10 dB, DC to 4 GHz ≤ 0.15 dB, 4 GHz to 8 GHz ≤ 0.20 dB, 8 GHz to 18 GHz
Error from nominal phase ¹	$\leq 1.2^\circ$, DC to 4 GHz $\leq 1.5^\circ$, 4 GHz to 8 GHz $\leq 2.5^\circ$, 8 GHz to 18 GHz

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

Mechanical data

Mating cycles	≥ 500
Maximum torque	1.70 Nm
Recommended torque	1.10 Nm
Gauge	5.22 mm to 5.26 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	100.069 ps
Length (electrical) / Offset Length	30.00 mm
Offset Loss	0.80 G Ω /s
Loss	0.0139 dB/ $\sqrt{\text{GHz}}$
Short Inductance ²	

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

Environmental data

Operating temperature range ³	+20 $^\circ\text{C}$ to +26 $^\circ\text{C}$
Rated temperature range of use ⁴	0 $^\circ\text{C}$ to +50 $^\circ\text{C}$
Storage temperature range	-40 $^\circ\text{C}$ to +85 $^\circ\text{C}$

RoHS	compliant
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³ Temperature range over which these specification are valid.

⁴ This range is underneath and above the operating temperature range, within the short circuit is fully functional and could be used without damage.

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RF_35/09.14/6.2

Technical Data Sheet				Rosenberger									
RPC-N 50 Ω		Offset Short Jack		05K12S-002S3									
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 <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>67 g/pce</td></tr></table>								Recommendation	12 months	Standard	1 pce in box	Weight	67 g/pce
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Draft		Date		Rev.		Engineering change number							
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