



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

**Interface**

RPC-N 75 Ω according to	IEC 61169-16
F 75 Ω according to	IEC 169-24 ; EIA-550

**Documents**

Application note	AN001 "Calibration Services"
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**Material and plating**

**Connector parts**

Center conductor	<b>Material</b> CuBe	<b>Plating</b> Gold, min. 1.27 µm, over nickel
Outer conductor	Stainless steel	Passivated
Coupling nut	Stainless steel	Passivated
Dielectric	PS	

# Technical Data Sheet

# Rosenberger

Calibration Adaptor  
RPC-N 75 Ω Plug – F 75 Ω Jack

## P5S174-K20S3

### Electrical data

Frequency DC to 4 GHz  
Return loss ≥ 32 dB, DC to 3 GHz  
≥ 28 dB, 3 GHz to 4 GHz

### Mechanical data

Mating cycles ≥ 500

	RPC-N 75 Ω	F 75 Ω
Maximum torque	1.70 Nm	6.78 Nm
Recommended torque	1.10 Nm	2.00 Nm
Gauge	5.28 mm to 5.36 mm	0.00 mm to 0.10 mm
Accommodate male contact diameter		0.76 mm to 0.86 mm

### 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

<sup>1</sup> Temperature range over which these specifications are valid.

<sup>2</sup> This range is underneath and above the operating temperature range, within the open circuit is fully functional and could be used without damage.

### 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 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 1 pce in box  
Weight 49.5 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	04.05.15	Martin Moder	08.05.15	f00	14-1492	Herbert Babinger	08.05.15

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