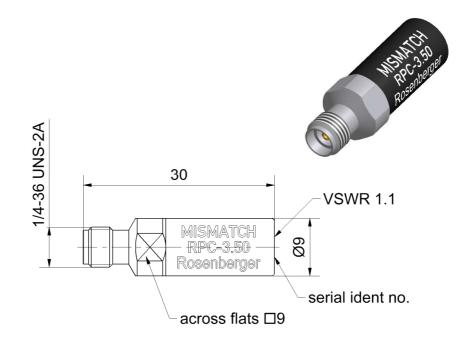
Technical Data Sheet		Rosenberger		
RPC-3.50	Mismatch Jack	03K150-055S3		



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

#### Interface

According to Mechanically compatible with

IEC 60169-23 RPC-2.92 and SMA

## **Documents**

Application note

AN001 "Calibration Services"

# Material and plating Connector parts

Connector parts
Center conductor
Outer conductor
Dielectric
Substrate

# Material

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

#### **Plating**

Gold, min. 1.27  $\mu m$ , over nickel Passivated

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

1/2

Technical Data Sheet		Rosenberger		
RPC-3.50	Mismatch Jack	03K150-055S3		

# Electrical data

Frequency range DC to 26.5 GHz

VSWR 1.1  $\pm$ 0.05, DC to 12 GHz

1.1 ±0.07, 12 GHz to 26.5 GHz

DC Resistance 55  $\Omega$ Power handling  $\leq$  0.5 W

#### Mechanical data

 $\begin{array}{ll} \text{Mating cycles} & \geq 500 \\ \text{Maximum torque} & 1.70 \text{ Nm} \\ \text{Recommended torque} & 0.90 \text{ Nm} \\ \end{array}$ 

Gauge 0.00 mm to 0.04 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

## **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.

#### **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. Calibration results are reported in a dense data set file. The uncertainties are smaller than in a Factory Calibration.

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 8.0 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
Herbert Babinger 17	17.10.14	Lars Ramtke	08.10.19	f00	19-1910	Marion Striegler	08.10.19

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

2/2

<sup>&</sup>lt;sup>1</sup> Temperature range over which these specification are valid.

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