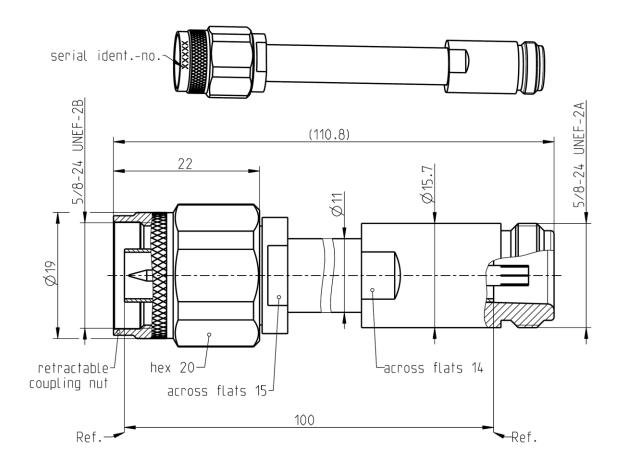
# **Technical Data Sheet**

# Rosenberger

RPC-N 50 Ω Mismatch Airline Plug / Jack

05S102-K100



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

#### Interface

According to

IEC 61169-16

# **Documents**

Application note

AN001 "Calibration Services"

# **Documentation**

This Part is delivered with:

- USB Stick
  - with S2p data file of the reference measurement values. Calibration Certificate as PDF file.
- Calibration Certificate

Details see "Declaration of calibration" options.

#### Material and plating

## Connector parts

Center conductor Outer conductor Coupling nut

# Material

Plating Gold, m

CuBe Gold, min. 1.27  $\mu$ m, over chemical nickel Brass Gold, min. 1.27  $\mu$ m, over chemical nickel Stainless steel Passivated

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1/2

Page

Technical Data Sheet		Rosenberger		
RPC-N 50 Ω	Mismatch Airline Plug / Jack	05S102-K100		

#### Mechanical data

Mating cycles≥ 500Maximum torque1.70 NmRecommended torque1.10 Nm

Nominal Airline dimensions at 23 °C:

(outer conductor – inner conductor) - Length 25  $\Omega$  section 75.00 mm

## **Electrical verification standard**

This Mismatch Airline is designed as an electrical verification standard. Reference measurement values (calibration results) for transmission and reflection are included. Connected to a calibrated VNA the actual measured transmission and reflection values can be compared to the reference measurement values and the quality of the VNA calibration can be evaluated.

#### **Environmental data**

Operating temperature range<sup>1</sup> +20 °C to +26 °C Storage temperature range 0 °C to +50 °C RoHS compliant

 This range is a recommendation. However, the mismatch airline can be used in a wider range. Any temperature change from 23 °C results in dimensional changes.

#### **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. A S2p data file with the reference measurement values is included.

#### **Accredited Calibration**

Optional this Mismatch Airline can be delivered with an Accredited Calibration (DAkkS) having the highest confidence in the traceability. The DAkkS Calibration Certificate issued reports individual transmission and reflection calibration results traceable to national / international standards. A S2p data file with reference measurement values and measurement uncertainties in electronic format is included. The measurement 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 108.3 g/pce

Center conductor loose in an acrylic glass tube

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.

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