

RF\_35/09.14/6.2

Technical Data Sheet			Rosenberger				
RPC-N 50 Ω	Mismatch Airline Plug / Jack		05S102-K100				
<ul> <li>Diameter o</li> <li>Diameter in</li> <li>Diameter in</li> <li>Length oute</li> <li>Length inne</li> <li>Length diffe</li> </ul>	s rque led torque ine dimensions at 23 °C: uter conductor oner conductor 50 $\Omega$ section oner conductor 25 $\Omega$ section er conductor er conductor er conductor er conductor er conductor erence luctor – inner conductor)	≥ 500 1.70 Nm 1.10 Nm 7.000 mm 3.040 mm 4.615 mm 100.00 mm 100.00 mm ≤ 0.04 mm					
	verification standard						

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> Storage temperature range RoHS 1 This range is a recommendation +20 °C to +26 °C 0 °C to +50 °C 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

Weight Center conductor 1 pce in box 108.3 g/pce 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.

Draft	Date	Approved	Date		Rev.	Engineering change number	Name		Date
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