



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

**Interface**

According to IEC 60169-23  
Mechanically compatible with RPC-2.92 and SMA

**Documents**

Application note AN001 "Calibration Services"

**Material and plating**

**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 µm, over nickel  
Passivated

RPC-3.50

Mismatch  
Jack

**03K150-055S3**

**Electrical data**

Frequency range DC to 26.5 GHz  
 VSWR 1.1 ±0.03, DC to 12 GHz  
 1.1 ±0.05, 12 GHz to 26.5 GHz  
 DC Resistance 55 Ω  
 Power handling ≤ 0.5 W

**Mechanical data**

Mating cycles ≥ 500  
 Maximum torque 1.70 Nm  
 Recommended torque 0.90 Nm  
 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

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

<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.

**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	17.10.14	Martin Moder	17.10.14	e00	14-1492	Herbert Babinger	17.10.14

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