



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

Interface

According to
Mechanically compatible with

IEC 61169-35
RPC-3.50 and SMA

Documents

Application note

AN001 "Calibration Services"

Material and plating

Connector parts

Center conductor
Outer conductor
Coupling nut
Dielectric
Substrate

Material

CuBe
Stainless steel
Stainless steel
PS
Al₂O₃

Plating

Gold, min. 1.27 µm, over nickel
Passivated
Passivated

Electrical data

| | |
|-----------------|------------------------------|
| Frequency range | DC to 40 GHz |
| VSWR | 1.5 ± 0.04, DC to 4 GHz |
| | 1.5 ± 0.05, 4 GHz to 18 GHz |
| | 1.5 ± 0.08, 18 GHz to 40 GHz |
| DC Resistance | 75 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 0.03 mm |

Environmental data

| | |
|---|------------------|
| Operating temperature range ¹ | +20 °C to +26 °C |
| Rated temperature range of use ² | 0 °C to +50 °C |
| Storage temperature range | -40 °C to +85 °C |

RoHS compliant

¹ Temperature range over which these specification are valid.

² 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

Weight

8.3 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.

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|--|----------|--------------|----------|------|---|------------|---------------|
| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
| Herbert Babinger | 09.12.14 | Martin Moder | 18.11.15 | g00 | 15-1421 | Maik Knoll | 18.11.15 |
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