



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

Center conductor
Outer conductor
Coupling nut
Dielectric

Material

CuBe
Stainless steel
Stainless steel
PS

Plating

Gold, min. 1.27 µm, over nickel
Passivated
Passivated

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF_35/09;14/6.2

Electrical data

| | |
|-----------------|---|
| Frequency range | DC to 26.5 GHz |
| Return loss | ≥ 34 dB, DC to 4 GHz ≥ 32 dB, 4 GHz to 8 GHz ≥ 30 dB, 8 GHz to 26.5 GHz |

Mechanical data

| | |
|--------------------|--------------------|
| Mating cycles | ≥ 500 |
| Maximum torque | 1.70 Nm |
| Recommended torque | 0.90 Nm |
| Gauge | 0.00 mm to 0.04 mm |

General standard definitions

For proper operation the vector network analyzer (VNA) needs a model describing the electrical behaviour of this calibration standard. The different models, units, and terms used will depend on the VNA type and they will have to be entered into the VNA. All values are based on typical geometry and plating.

| | |
|-------------------------------------|--------------------------------|
| Offset Z_0 / Impedance / Z_0 | 50 Ω |
| Offset Delay | 84.0582 ps |
| Length (electrical) / Offset Length | 25.20 mm |
| Offset Loss | 2.51 G Ω /s |
| Loss | 0.0183 dB/ $\sqrt{\text{GHz}}$ |

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 calibration adaptor is fully functional and could be used without damage.