



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

Interface

According to IEC 61169-24, EIA-550

Documents

Application note AN001 "Calibration Services"

Material and plating

Connector parts

- Center contact
- Outer contact
- 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	DC to 6 GHz
Return loss	≥ 40 dB, DC to 4 GHz ≥ 35 dB, 4 GHz to 6 GHz
DC Resistance	75 Ω ± 0.75 Ω
Power handling (at 25 °C, sea level)	≤ 0.5 W, derated by 0.005 W/K

Mechanical data

Mating cycles	≥ 1000
Maximum torque	6.78 Nm
Recommended torque	2.00 Nm
Nominal pin diameter	0.81 mm
Gauge	0.00 mm to 0.10 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	75 Ω
Offset Delay	0.0000 ps
Length (electrical) / Offset Length	0.00 mm
Offset Loss	0.00 GΩ/s
Loss	0.0000 dB/√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 load is fully functional and could be used without damage.