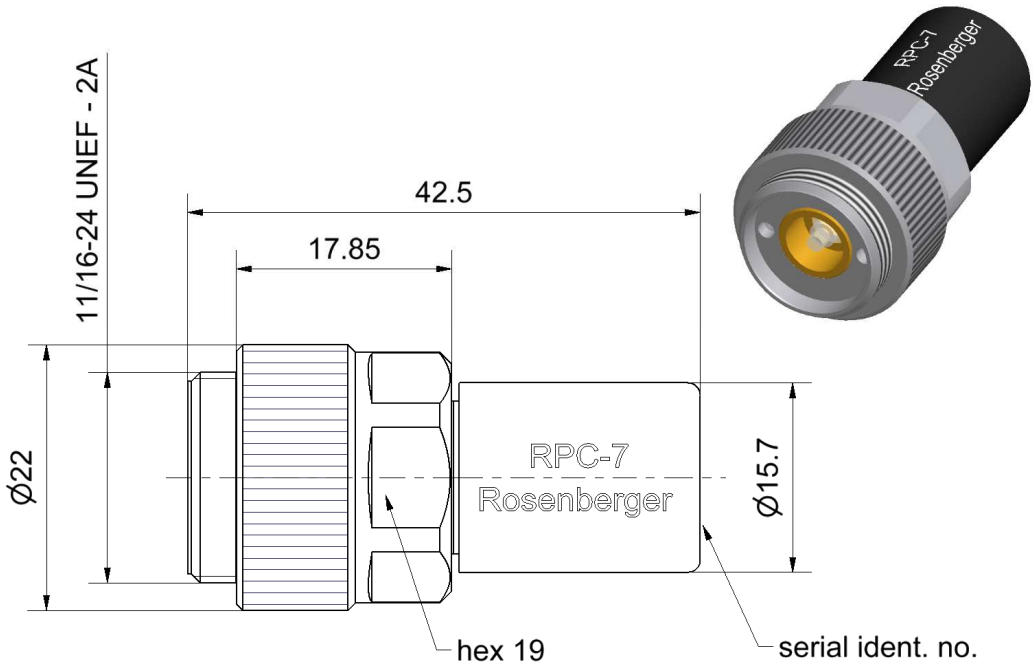
Technical Data Sheet		Rosenberger
RPC-7	Open Circuit	**07P12L-000S3**



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

Interface

According to	IEC 457-2

Documents

Application note	AN001 “Calibration Services”

Material and plating

Connector parts	**Material**	**Plating**
Center conductor	PS	
Outer conductor	CuBe	Gold, min. 1.27 µm, over nickel
Body	Stainless steel	Passivated
Coupling nut	Stainless steel	Passivated
Dielectric	PS	

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Electrical data

Frequency range	DC to 18 GHz
Return loss	≤ 0.10 dB, DC to 4 GHz
	≤ 0.15 dB, 4 GHz to 18 GHz
Error from nominal phase[1]	≤ 1.2°, DC to 4 GHz
	≤ 2.5°, 4 GHz to 18 GHz

[1] *The nominal phase is defined by the Offset Delay, the Offset Loss and the Fringing Capacitances.*

Mechanical data

Mating cycles	≥ 5000
Maximum torque	1.95 Nm
Recommended torque	1.36 Nm
Gauge	0.00 mm to 0.025 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_o / Impedance / Z_o	50 Ω
Offset Delay	0.0000 ps
Length (electrical) / Offset Length	0.000 mm
Offset Loss	0.00 GΩ/s
Loss	0.0000 dB/ $\sqrt{\text{GHz}}$
Fringing Capacitances[2]	

[2] *Fringing Capacitances are determined individually for each open circuit and are documented in a Calibration Certificate.*

Environmental data

Operating temperature range[3]	+20 °C to +26 °C
Rated temperature range of use[4]	0 °C to +50 °C
Storage temperature range	- 40 °C to +85 °C
RoHS	compliant

[3] *Temperature range over which these specification are valid.*
[4] *This range is underneath and above the operating temperature range, within the open circuit is fully functional and could be used without damage.*

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