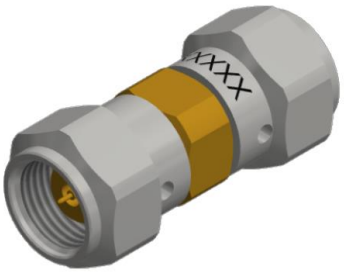
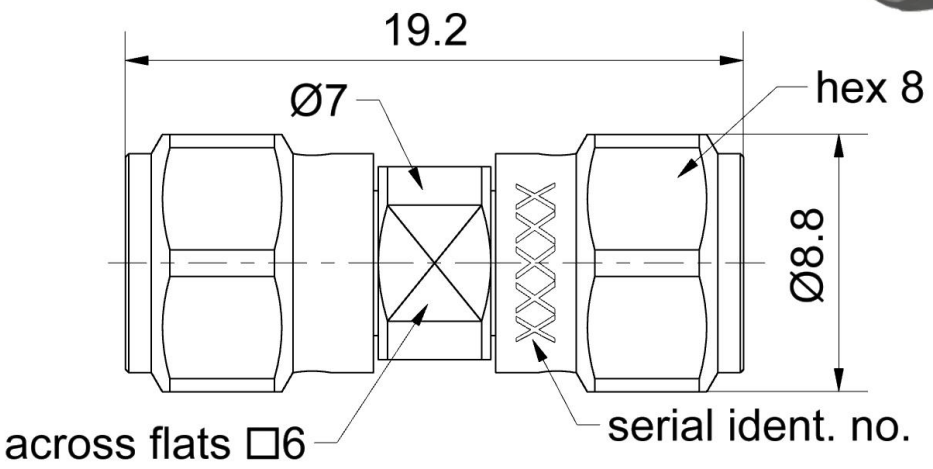
Technical Data Sheet		Rosenberger
RPC-1.35	Calibration Adaptor Plug - Plug	**P9S121-S20D3**





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

Interface

According to	IEC 61169-65

Documents

Application note	AN001 “Calibration Services”

Material and plating

Connector parts	**Material**	**Plating**
Center conductor	CuBe	Gold, min. 1.27µm
Outer conductor	CuBe or equiv.	Gold, min. 1.27µm
Coupling nut	Stainless steel	Passivated
Dielectric	PEEK	

Rosenberger Hochfrequenztechnik GmbH & Co. KG
P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.de

Tel. : +49 8684 18-0
Email : info@rosenberger.de

Electrical data

Frequency range	DC to 90 GHz

This calibration standard is designed to be part of a Rosenberger RPC-1.35 calibration kit, e.g. P9CK010-150 or P9CK001-150. Please consult the data sheet of one of the mentioned calibration kits for the specified Residual System Data in that application.

Return loss	≥ 31 dB, DC to 10 GHz ≥ 24 dB, 10 GHz to 30 GHz ≥ 20 dB, 30 GHz to 50 GHz ≥ 18 dB, 50 GHz to 60 GHz ≥ 15 dB, 60 GHz to 90 GHz

Mechanical data

Mating cycles	≥ 3000
Maximum torque	1.65 Nm
Recommended torque	0.90 Nm
Gauge	0.003 mm to 0.020 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	53.97 ps
Length (electrical) / Offset Length	16.18 mm
Offset Loss	5.95 GΩ/s
Loss	0.0558 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.*

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