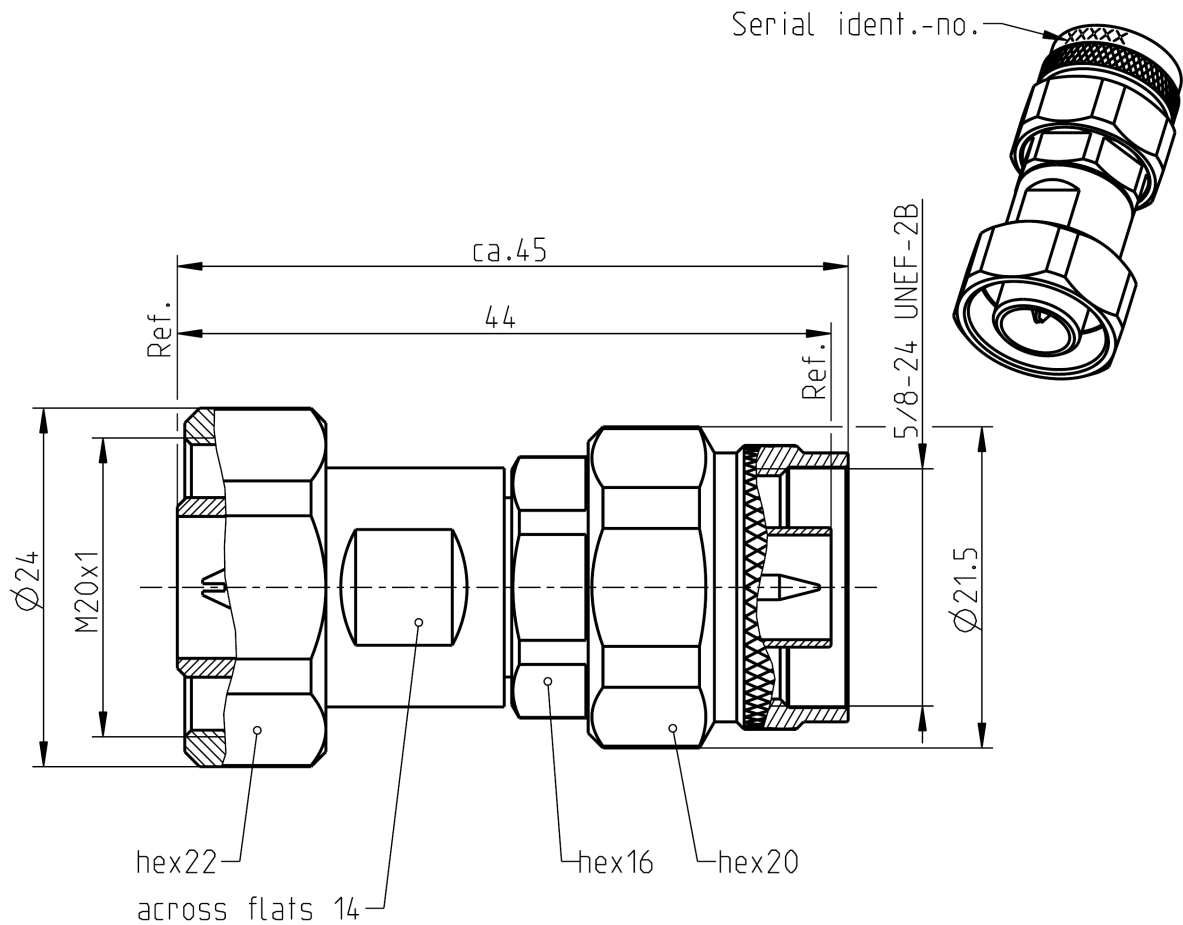




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

RPC-N according to
4.1-9.5 according to

IEC 61169-16
IEC 61169-11, DIN 47231

Documents

Application note

AN001 "Calibration Services"

Material and plating

Connector parts

Center conductor
Outer conductor
Coupling nut
Dielectric

Material

CuBe
Stainless steel
Stainless steel
PTFE

Plating

Gold, min. 1.27 µm, over nickel
Passivated
Passivated

Electrical data

Frequency range	DC to 12 GHz
Return loss	≥ 34 dB, DC to 4 GHz ≥ 30 dB, 4 GHz to 6 GHz ≥ 28 dB, 6 GHz to 12 GHz

Mechanical data

Mating cycles	≥ 500	
	RPC-N	4.1-9.5
Maximum torque	1.70 Nm	15 Nm
Recommended torque	1.10 Nm	2 Nm
Gauge	5.28 mm to 5.36 mm	5.05 mm to 5.13 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	153.1350 ps
Length (electrical) / Offset Length	45.90 mm
Offset Loss	1.40 G Ω /s
Loss	0.0186 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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RF_35/09.14/6.2

Technical Data Sheet				Rosenberger			
Calibration Adaptor RPC-N Plug – 4.1-9.5 Plug				05S165-S20S3			
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 Rosenberger standards, national / international standards are not available. Model based standard definitions are reported in an Agilent/Keysight, Rohde & Schwarz and Anritsu compatible VNA format. Accredited Calibration Not available. For further, more detailed information see application note AN001 on the Rosenberger homepage. Calibration interval Recommendation12 months Packing Standard1 pce in box Weight62.0 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.							
Draft		Date		Approved		Date	
Herbert Babinger		26.07.10		Martin Moder		19.07.16	
Rev.		Engineering change number		Name		Date	
c00		14-1492		A. Youmsi Mouafo		19.07.16	
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