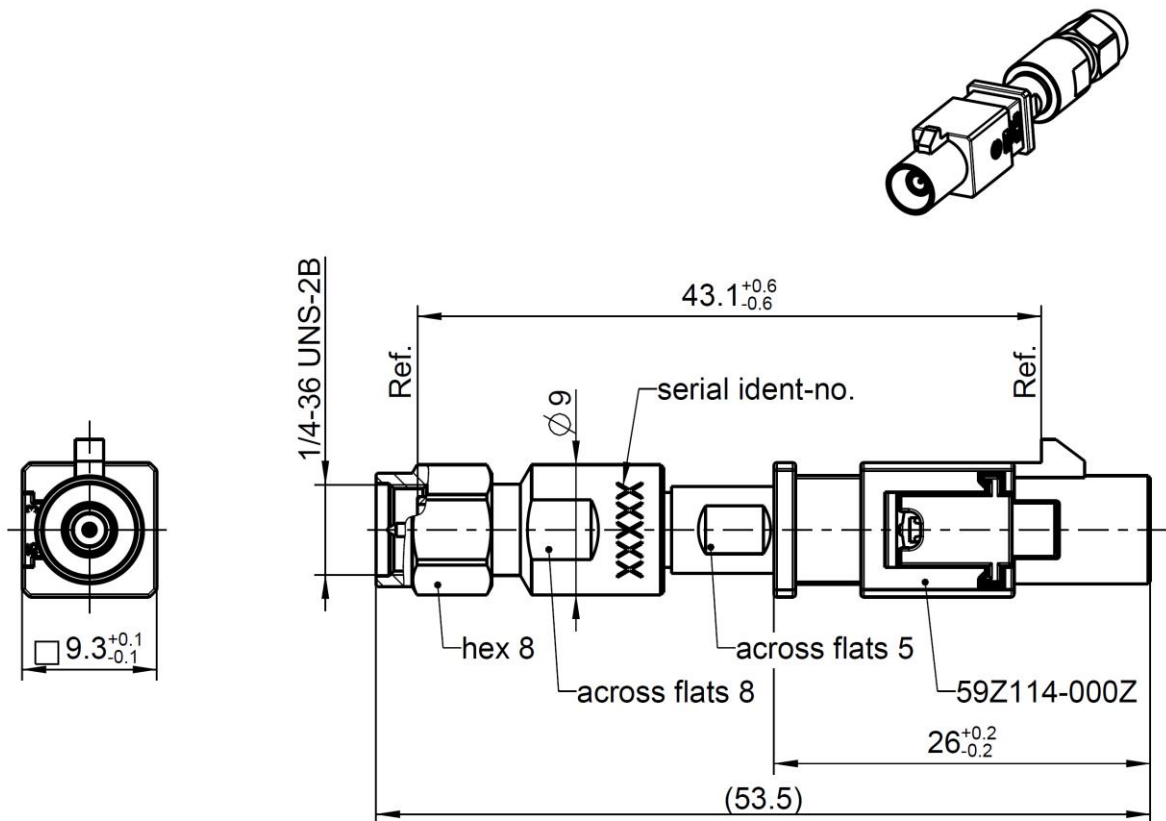




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

RPC-3.50 side

According to

Mechanically compatible with

IEC 60169-23

RPC-2.92 and SMA

SMB Fakra side

According to

DIN 72594-1

Documents

Application note

AN001 "Calibration Services"

Material and plating

Connector parts

Center conductor

Outer conductor RPC-3.50

Outer conductor SMB Fakra

Dielectric RPC-3.50

Dielectric SMB Fakra

Coupling nut RPC-3.50

Housing SMB Fakra

Secondary Lock SMB Fakra

Material

CuBe

Stainless steel

Brass

PS

PTFE

Stainless steel

PBT-GF20

PBT-GF10

Plating

Gold, min. 1.27 µm, over nickel

Passivated

AuroDur®, gold plated

Passivated

Electrical data

Frequency	DC to 6 GHz
Return loss	≥ 35 dB, DC to 1 GHz
	≥ 26 dB, 1 GHz to 3 GHz
	≥ 21 dB, 3 GHz to 6 GHz

Mechanical data

	RPC-3.50	SMB Fakra
Mating cycles	≥ 500	≥ 500 (SMB Fakra Interface)
		≥ 25 (SMB Fakra housing)
Maximum torque	1.70 Nm	
Recommended torque	0.90 Nm	
Engagement force		≤ 25 N
Disengagement force		≥ 2 N
Gauge	0.00 mm to 0.08 mm	

General standard definition

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	157.3250 ps
Length (electrical) / Offset Length	47.16 mm
Offset Loss	2.07 G Ω /s
Loss	0.0283 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
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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-3.50 Plug – SMB Fakra Plug				03S159-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 <table><tr><td>Recommendation</td><td>12 months</td></tr></table> Packing <table><tr><td>Standard</td><td>1 pce in box</td></tr><tr><td>Weight</td><td>12.3 g/pce</td></tr></table>								Recommendation	12 months	Standard	1 pce in box	Weight	12.3 g/pce										
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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.																							
<table><tr><td>Draft</td><td>Date</td><td>Approved</td><td>Date</td></tr><tr><td>Herbert Babinger</td><td>07.10.04</td><td>S. Andorfer</td><td>25.01.18</td></tr></table>				Draft	Date	Approved	Date	Herbert Babinger	07.10.04	S. Andorfer	25.01.18	<table><tr><td>Rev.</td><td>Engineering change number</td><td>Name</td><td>Date</td></tr><tr><td>f00</td><td>17-1935</td><td>M. Knoll</td><td>25.01.18</td></tr></table>				Rev.	Engineering change number	Name	Date	f00	17-1935	M. Knoll	25.01.18
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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		Page 3 / 3																	

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