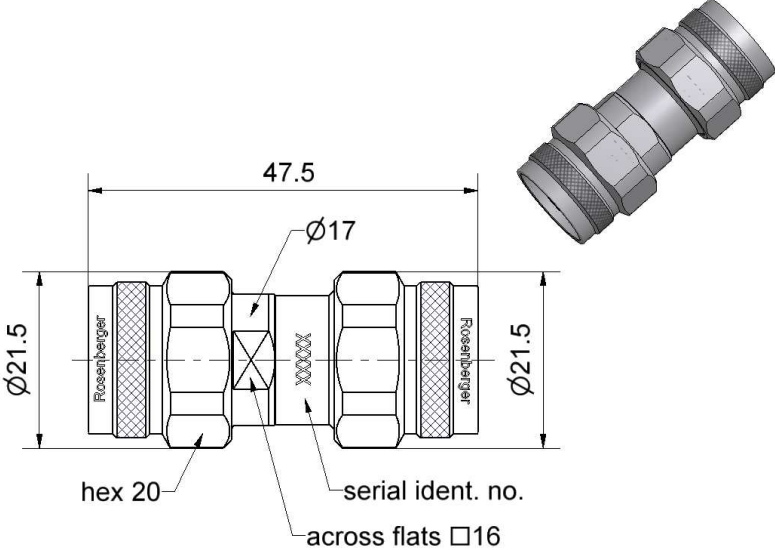


Technical Data Sheet		Rosenberger															
RPC-N 50 Ω	Calibration Adaptor Plug/Plug	05S121-S20S3															
																	
All dimensions are in mm; tolerances according to ISO 2768 m-H Interface According to IEC 61169-16 Documents Application note AN001 "Calibration Services" Material and plating <table><tr><td>Connector parts</td><td>Material</td><td>Plating</td></tr><tr><td>Center conductor</td><td>CuBe</td><td>Gold, min. 1.27 µm, over nickel</td></tr><tr><td>Outer conductor</td><td>Stainless steel</td><td>Passivated</td></tr><tr><td>Coupling nut</td><td>Stainless steel</td><td>Passivated</td></tr><tr><td>Dielectric</td><td>PPE</td><td></td></tr></table>			Connector parts	Material	Plating	Center conductor	CuBe	Gold, min. 1.27 µm, over nickel	Outer conductor	Stainless steel	Passivated	Coupling nut	Stainless steel	Passivated	Dielectric	PPE	
Connector parts	Material	Plating															
Center conductor	CuBe	Gold, min. 1.27 µm, over nickel															
Outer conductor	Stainless steel	Passivated															
Coupling nut	Stainless steel	Passivated															
Dielectric	PPE																
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 1 / 3															

RPC-N
50 Ω

Calibration Adaptor
Plug/Plug

05S121-S20S3

Electrical data

Frequency range	DC to 18 GHz
Return loss	≥ 36 dB, DC to 4 GHz
	≥ 32 dB, 4 GHz to 8 GHz
	≥ 30 dB, 8 GHz to 18 GHz

Mechanical data

Mating cycles	≥ 500
Maximum torque	1.70 Nm
Recommended torque	1.10 Nm
Gauge	5.28 mm to 5.32 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	153.7730 ps
Length (electrical) / Offset Length	46.10 mm
Offset Loss	2.20 G Ω /s
Loss	0.0294 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.

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG
RF_35/09.14/6.2

Technical Data Sheet				Rosenberger																			
RPC-N 50 Ω		Calibration Adaptor Plug/Plug		05S121-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 national / international standards. Model based standard definitions are reported in an Agilent/Keysight, Rohde & Schwarz and Anritsu compatible VNA format. Accredited Calibration Optional this calibration standard can be delivered with an Accredited Calibration (DAkkS) having the highest confidence in the traceability. The DAkkS Calibration Certificate issued reports individual calibration results in a complex format, traceable to national / international standards. Model based standard definitions are reported in an Agilent/Keysight, Rohde & Schwarz and Anritsu compatible VNA format. The uncertainties are smaller than in a Factory Calibration. 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>64.6 g/pce</td></tr></table>								Recommendation	12 months	Standard	1 pce in box	Weight	64.6 g/pce										
Recommendation	12 months																						
Standard	1 pce in box																						
Weight	64.6 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.																							
<table><tr><td>Draft</td><td>Date</td><td>Approved</td><td>Date</td></tr><tr><td>Herbert Babinger</td><td>27.07.04</td><td>Markus Müller</td><td>11.10.16</td></tr></table>				Draft	Date	Approved	Date	Herbert Babinger	27.07.04	Markus Müller	11.10.16	<table><tr><td>Rev.</td><td>Engineering change number</td><td>Name</td><td>Date</td></tr><tr><td>g00</td><td>16-1390</td><td>Marion Striegler</td><td>10.10.16</td></tr></table>			Rev.	Engineering change number	Name	Date	g00	16-1390	Marion Striegler	10.10.16	
Draft	Date	Approved	Date																				
Herbert Babinger	27.07.04	Markus Müller	11.10.16																				
Rev.	Engineering change number	Name	Date																				
g00	16-1390	Marion Striegler	10.10.16																				
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																

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Rosenberger:](#)

[05S121-S20S3](#)