Technical Data Sheet		Rosenberger	
RPC-N 50 Ω	Calibration Kit Industrial Version	05CK010-150	
	<image/>		

### Contents

Device	Part number	Quantity	Calibration Option <sup>a</sup>	
Open circuit plug	05S12L-000S3	1	FC / AC	
Open circuit jack	05K12L-000S3	1	FC / AC	
Short circuit plug	05S12S-000S3	1	FC / AC	
Short circuit jack	05K12S-000S3	1	FC / AC	
Calibration load plug	05S150-C10S3	1	FC / AC	
Calibration load jack	05K150-C10S3	1	FC / AC	
Calibration adaptor plug/plug	05S121-S20S3	1	FC / AC	
Calibration adaptor jack/jack	05K121-K20S3	1	FC / AC	
Combi wrench	53W011-000	1	-	
Torque wrench	53W009-000	1	FC	

a. See "Declaration of calibration options" for explanation.

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

Tel. : +49 8684 18-0 Fax : +49 8684 18-499 Email : <u>info@rosenberger.de</u> Page

Technic	Technical Data Sheet			
RPC-N	Calibration Kit			

Industrial Version

50 Ω

## Rosenberger

### 05CK010-150

### Documentation

This kit is delivered with

- USB-Stick
   Standard Definitions as data files for Vector Network Anaylzer Families PNA (Keysight/Agilent) and ZVA (Rohde&Schwarz). Calibration Certificate as PDF-file.
- Standard Definitions Cards
   Printed Standard Definitions that can be used on nearly all Vector Network Analyzers.

   Kit Info Card
- Handling precautions and information for installing Standard Definitions on a Vector Network Analyzer.
   Calibration Certificate
- Details see "Declaration of calibration options"
- Operating Manual

### **Electrical specifications**

This specification covers electrical key values for the main calibration standards of the calibration kit. Specific datasheets are available for each component among the part number.

Calibration standard	Frequency	Parameter	Specification	
<b>Opens<sup>b</sup></b> (plug and jack)	$\begin{array}{rrrr} DC & to & \leq 4 \ GHz \\ > 4 \ GHz & to & \leq 8 \ GHz \\ > 8 \ GHz & to & \leq 18 \ GHz \end{array}$	Error from Nominal Phase	≤ 1.5° ≤ 2.0° ≤ 3.0°	
<b>Shorts<sup>b</sup></b> (plug and jack)	$\begin{array}{rrrr} DC & to & \leq 4 \ GHz \\ > 4 \ GHz & to & \leq 8 \ GHz \\ > 8 \ GHz & to & \leq 18 \ GHz \end{array}$	Error from Nominal Phase	≤ 1.2° ≤ 1.5° ≤ 2.5°	
Calibration loads (plug and jack)	DC to $\leq$ 4 GHz > 4 GHz to $\leq$ 8 GHz > 8 GHz to $\leq$ 18 GHz	Return Loss	≥ 45 dB ≥ 32 dB ≥ 30 dB	
Calibration adaptors (plug/plug and jack/jack)	$\begin{array}{rrrr} DC & to & \leq 4 \ GHz \\ > 4 \ GHz & to & \leq 8 \ GHz \\ > 8 \ GHz & to & \leq 18 \ GHz \end{array}$	Return Loss	≥ 36 dB ≥ 32 dB ≥ 30 dB	

b. The specifications for opens and shorts are given as allowed deviation from nominal model as defined in calibration certificate included with your kit.

Ц Ц

Rosenberger Ho	chfrequenztechnik Gmbł	H & Co. KG				
P.O.Box 1260	D-84526 Tittmoning	Germany				
www.rosenberger.de						

Tel. : +49 8684 18-0 Fax : +49 8684 18-499 Email : <u>info@rosenberger.de</u>

### **Technical Data Sheet**

RPC-N 50 Ω

### Calibration Kit Industrial Version

# Rosenberger

### 05CK010-150

### Declaration of calibration options

### **Factory Calibration**

Standard delivery for this kit includes a Factory Calibration. All devices marked with "FC" in the Content table above are reported in a Calibration Certificate with their individual calibration results, traceable to national / international standards. Classical standard definitions of the calibration standards are reported in Agilent, Rohde&Schwarz and Anritsu compatible VNA format.

### **Accredited Calibration**

Optional this kit can be delivered with an Accredited Calibration (DAkkS) having the highest confidence in the traceability. All devices marked with "AC" in the Content table above are reported in a DAkkS Calibration Certificate with their individual calibration results in a complex format, traceable to national / international standards. Classical standard definitions of the calibration standards are reported in Agilent, Rohde&Schwarz and Anritsu VNA format as well as in dense data sets needed for databased calibration kits. The uncertainties are a little bit smaller than in a Factory Calibration.

All devices marked with "FC" only cannot be calibrated under accreditation. They are factory calibrated as described above.

For further, more detailed information see application note AN001 on the Rosenberger homepage.

#### **Calibration interval**

Recommendation

12 months

#### Recommended accessories

- Rosenberger Test Port Adaptor
- Rosenberger Gauge Kit 05GK0KS-010
- Rosenberger VNA Test cable kit and Microwave Cable Assemblies

For further, more detailed information please visit our homepage www.rosenberger.com.

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		Rev.	Engineering change number	Name	Date
Martin Moder	11.12.14	H. Babinger	09.03.15		a00	15-s115	M. Knoll	09.03.15
						l. : +49 8684 18-0 x : +49 8684 18-499		Page
www.rosenberger.de				En	nail : info@rosenberger.de		3/3	

RF\_35/05.10/6.1

## **Mouser Electronics**

Authorized Distributor

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

Rosenberger: 05CK010-150