Technical Data Sheet			Rosenberger			
RPC-2.92	Calibration Kit Industrial Version		02CK010-1	150		
Contents		Rosenber Roze J Model Ozckoto-150	Savode ooc 5 8 8			
		Part number	Quantity	Calibration Option <sup>a</sup>		
Open	circuit plug	Part number 02S12L-000S3	Quantity 1	FC / AC		
Open Open	circuit plug circuit jack	Part number 02S12L-000S3 02K12L-000S3	Quantity 1 1	FC / AC FC / AC		
Open Open Short	circuit plug circuit jack circuit plug	Part number 02S12L-000S3 02S12S-000S3	Quantity 1 1 1 1	FC / AC FC / AC FC / AC		
Open Open Short Short	circuit plug circuit jack circuit plug circuit jack	Part number 02S12L-000S3 02K12L-000S3 02S12S-000S3 02K12S-000S3	Quantity 1 1 1 1 1 1 1	FC / AC FC / AC FC / AC FC / AC		
Open Open Short Short Calibr	circuit plug circuit jack circuit plug	Part number 02S12L-000S3 02S12S-000S3	Quantity 1 1 1 1	FC / AC FC / AC FC / AC		

02K121-K20S3

03W008-000

03W021-000

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a.

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Calibration adaptor jack/jack

See "Declaration of calibration options" for explanation.

Combi wrench

Torque wrench

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FC / AC

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FC

RPC-2.92 Calibration Kit Industrial Version

## 02CK010-150

#### Documentation

This kit is delivered with

USB-Stick

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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
- 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)	$\begin{array}{rrrr} DC & to & \leq 4 \; GHz \\ > 4 \; GHz & to & \leq 18 \; GHz \\ > 18 \; GHz & to & \leq 40 \; GHz \end{array}$	Error from Nominal Phase	≤ 1.0° ≤ 2.0° ≤ 3.0°	
<b>Shorts<sup>b</sup></b> (plug and jack)	$\begin{array}{rrrr} DC & to & \leq 4 \ GHz \\ > \ 4 \ GHz & to & \leq 18 \ GHz \\ > \ 18 \ GHz & to & \leq 40 \ GHz \end{array}$	Error from Nominal Phase	≤ 1.0° ≤ 2.0° ≤ 3.0°	
Calibration loads (plug and jack)	$\begin{array}{rrrr} DC & to & \leq 4 \; GHz \\ > \; 4 \; GHz & to & \leq 18 \; GHz \\ > \; 18 \; GHz & to & \leq 40 \; GHz \end{array}$	Return Loss	≥ 42 dB ≥ 33 dB ≥ 30 dB	
Calibration adaptors (plug/plug and jack/jack)	$\begin{array}{rrrr} DC & to & \leq 4 \ GHz \\ > \ 4 \ GHz & to & \leq 18 \ GHz \\ > \ 18 \ GHz & to & \leq 40 \ GHz \end{array}$	Return Loss	≥ 32 dB ≥ 28 dB ≥ 25 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.

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### **Technical Data Sheet**

Calibration Kit **RPC-2.92** Industrial Version

# Rosenberger

## 02CK010-150

#### 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 03GK0KS-010
- Rosenberger VNA Test cable kit and Microwave Cable Assemblies

For further, more detailed information please visit our homepage <u>www.rosenberger.com</u>.

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	08.12.14	H.Babinger	20.01.15		a00	15-s031	M.Ruf	20.01.15
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