

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Rosenberger

RPC-1.85

Calibration Kit LRL Version

08CK020-150



Device	Part number	Remarks	QTY	Calibration Option <sup>a</sup>
13 mm Air line plug/jack	08S101-K013	L1	1	FC
14.9 mm Air line plug/jack	08S101-K014	L2	1	FC
22.6 mm Air line plug/jack	08S101-K022	L3	1	FC
Short circuit plug	08S12S-000S3	Reflect standard	1	FC
Short circuit jack	08K12S-000S3	Reflect standard	1	FC

03W008-000

03W021-000

Combi wrench

Torque wrench

LRL calibrations without lowband loads are band limited. There are many different possibilities to calibrate a VNA depending from the line length and the number of lines used during the calibration procedure. If two lines are used the third line can be used as verification standard. The following graphs show two possibilities using LRL with lowband loads. Without lowband loads the lower band cannot be calibrated.

# Frequency Range (2 Bands)

#### Frequency Range (3 Bands)

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FC

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

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#### **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 are "Deslayation of calibration."
  - Details see "Declaration of calibration options"
- Operating Manual

## **Electrical specifications**

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

Device	Frequency	Parameter	Specification	
Shorts <sup>b</sup> (plug and jack)	DC to ≤ 4 GHz > 4 GHz to ≤ 40 GHz > 40 GHz to ≤ 70 GHz	Error from Nominal Phase	≤ 2.0° ≤ 5.0° ≤ 8.0°	
Precision air lines <sup>c</sup>	0.5 GHz to ≤ 4 GHz > 4 GHz to ≤ 40 GHz > 40 GHz to ≤ 70 GHz	Return Loss	≥ 34 dB ≥ 26 dB ≥ 24 dB	

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

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c. Calculated value without warranty. The return loss specification includes the connector interfaces. The minimum frequency of the air lines is based on calculations of the impedance change due to skin depth. Refer to the calibration certificate included with your kit for the exact dimensions of your precision air lines.

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#### **Declaration of calibration options**

#### **Factory Calibration**

Standard delivery for this calibration standard includes a Factory Calibration. The Calibration Certificate issued reports individual mechanical 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**

Not available.

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 08GK0KS-010

- Rosenberger VNA Test cable kit and Microwave Cable Assemblies
- Rosenberger Calibration Loads 08S150-C10S3 and 08K150-C10S3

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	04.03.15	Herbert Babinger	01.06.16		b00	16-0852	S. Andorfer	01.06.16
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