Technical Data Sheet		Rosenberger
RPC-2.40	Calibration Kit Full Version	**09CK001-150**



Contents

Device	Part number	Quantity	Calibration Option[a]
Open circuit plug	09S12L-000S3	1	FC
Open circuit jack	09K12L-000S3	1	FC
Short circuit plug	09S12S-000S3	1	FC
Short circuit jack	09K12S-000S3	1	FC
Calibration load plug	09S150-C10S3	1	FC
Calibration load jack	09K150-C10S3	1	FC
Calibration adaptor plug/plug	09S121-S20S3	1	FC
Calibration adaptor jack/jack	09K121-K20S3	1	FC
Combi wrench	03W008-000	1	-
Torque wrench	03W021-000	1	FC
Gauge jack (including gauge block)	08W00S-000	1	FC
Gauge plug (including gauge block)	08W00K-000	1	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 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
Opens[b] (plug and jack)	DC to ≤ 4 GHz > 4 GHz to ≤ 26.5 GHz > 26.5 GHz to ≤ 50 GHz	Error from Nominal Phase	≤ 2.0° ≤ 4.0° ≤ 6.0°
Shorts[b] (plug and jack)	DC to ≤ 4 GHz > 4 GHz to ≤ 26.5 GHz > 26.5 GHz to ≤ 50 GHz	Error from Nominal Phase	≤ 1.5° ≤ 3.0° ≤ 4.5°
Calibration loads (plug and jack)	DC to ≤ 4 GHz > 4 GHz to ≤ 26.5 GHz > 26.5 GHz to ≤ 50 GHz	Return Loss	≥ 36 dB ≥ 30 dB ≥ 22 dB
Calibration adaptors (plug/plug and jack/jack)	DC to ≤ 4 GHz > 4 GHz to ≤ 26.5 GHz > 26.5 GHz to ≤ 50 GHz	Return Loss	≥ 30 dB ≥ 24 dB ≥ 17 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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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. Model based definitions of the calibration standards are reported in 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 VNA Test cable kit and Microwave Cable Assemblies

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

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