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!

Contact us

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Technical Data Sheet		Rosenberger
SMP	Calibration Kit Industrial Version	**19CK010-150**

Contents

Device	Part number	Quantity	Calibration Option[a]
Open circuit plug	19S12L-000D3	1	FC
Open circuit jack	19K12L-000D3	1	FC
Short circuit plug	19S12S-000D3	1	FC
Short circuit jack	19K12S-000D3	1	FC
Calibration load plug	19S150-C10D3	1	FC
Calibration load jack	19K150-C10D3	1	FC
Calibration adaptor plug/plug	19S121-S20D3	1	FC
Calibration adaptor jack/jack	19K121-K20D3	1	FC
Calibration adaptor plug/jack	19S121-K20D3	1	FC
Calibration adaptor RPC-2.92 plug to SMP plug	02S119-S20D3	1	FC
Calibration adaptor RPC-2.92 jack to SMP jack	02K119-K20D3	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 Analyzer 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 specifications for the calibration standards of the calibration kit. Specific and more detailed datasheets are available for each kit device among the part number.

Calibration standard	Frequency	Parameter	Specification
Opens[b] (plug and jack)	DC to ≤ 4 GHz > 4 to ≤ 18 GHz > 18 to ≤ 40 GHz	Error from Nominal Phase	≤ 3.0° ≤ 5.0° ≤ 8.0°
Shorts[b] (plug and jack)	DC to ≤ 4 GHz > 4 to ≤ 18 GHz > 18 to ≤ 40 GHz	Error from Nominal Phase	≤ 2.5° ≤ 6.0° ≤ 8.0°
Calibration loads (plug and jack)	DC to ≤ 4 GHz > 4 to ≤ 40 GHz	Return Loss	≥ 35 dB ≥ 25 dB
Calibration adaptors (plug/plug , jack/jack, plug/jack)	DC to ≤ 4 GHz > 4 to ≤ 18 GHz > 18 to ≤ 40 GHz	Return Loss	≥ 26 dB ≥ 20 dB ≥ 18 dB
Calibration adaptors RPC-2.92 to SMP (plug/plug and jack/jack)	DC to ≤ 12 GHz > 12 to ≤ 26.5 GHz > 26.5 to ≤ 40 GHz	Return Loss	≥ 32 dB ≥ 26 dB ≥ 21 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. The Calibration Certificate issued reports individual calibration results, **traceable to Rosenberger standards**, national / international standards are not available. Model based standard 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.

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.

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