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|----------------------|---------------------------------|-------------|
| Technical Data Sheet |                                 | Rosenberger |
| RPC-2.40             | Calibration Kit<br>Full Version | 09CK001-150 |



**Contents**

| Device                                | Part number  | Quantity | Calibration Option <sup>a</sup> |
|---------------------------------------|--------------|----------|---------------------------------|
| 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<br>(including gauge block) | 08W00S-000   | 1        | FC                              |
| Gauge plug<br>(including gauge block) | 08W00K-000   | 1        | FC                              |

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

## 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 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><br>(plug and jack)              | DC to ≤ 4 GHz<br>> 4 GHz to ≤ 26.5 GHz<br>> 26.5 GHz to ≤ 50 GHz | Error from Nominal Phase | ≤ 2.0°<br>≤ 4.0°<br>≤ 6.0°    |
| <b>Shorts<sup>b</sup></b><br>(plug and jack)             | DC to ≤ 4 GHz<br>> 4 GHz to ≤ 26.5 GHz<br>> 26.5 GHz to ≤ 50 GHz | Error from Nominal Phase | ≤ 1.5°<br>≤ 3.0°<br>≤ 4.5°    |
| <b>Calibration loads</b><br>(plug and jack)              | DC to ≤ 4 GHz<br>> 4 GHz to ≤ 26.5 GHz<br>> 26.5 GHz to ≤ 50 GHz | Return Loss              | ≥ 36 dB<br>≥ 30 dB<br>≥ 22 dB |
| <b>Calibration adaptors</b><br>(plug/plug and jack/jack) | DC to ≤ 4 GHz<br>> 4 GHz to ≤ 26.5 GHz<br>> 26.5 GHz to ≤ 50 GHz | Return Loss              | ≥ 30 dB<br>≥ 24 dB<br>≥ 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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| Technical Data Sheet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                 |          | Rosenberger                                                                                                           |                           |            |                   |
| RPC-2.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | Calibration Kit<br>Full Version |          | 09CK001-150                                                                                                           |                           |            |                   |
| <div>Declaration of calibration options</div> <div><b>Factory Calibration</b><br/>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 &amp; Schwarz and Anritsu compatible VNA format.</div> <div><b>Accredited Calibration</b><br/>Not available.</div> <div><i>For further, more detailed information see application note AN001 on the Rosenberger homepage.</i></div> <div>Calibration interval</div> <div>Recommendation12 months</div> <div>Recommended accessories</div> <div><ul style="list-style-type: none"><li>- Rosenberger Test Port Adaptor</li><li>- Rosenberger VNA Test cable kit and Microwave Cable Assemblies</li></ul></div> <div><i>For further, more detailed information please visit our homepage <a href="http://www.rosenberger.com">www.rosenberger.com</a>.</i></div> |          |                                 |          |                                                                                                                       |                           |            |                   |
| <div>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.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |                                 |          |                                                                                                                       |                           |            |                   |
| Draft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Date     | Approved                        | Date     | Rev.                                                                                                                  | Engineering change number | Name       | Date              |
| Martin Moder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 04/03/15 | Herbert Babinger                | 09.04.15 | a00                                                                                                                   | 15-s152                   | Maik Knoll | 09.04.15          |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br><a href="http://www.rosenberger.de">www.rosenberger.de</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |                                 |          | Tel. : +49 8684 18-0<br>Fax : +49 8684 18-499<br>Email : <a href="mailto:info@rosenberger.de">info@rosenberger.de</a> |                           |            | Page<br><br>3 / 3 |

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