

Technical Data Sheet

Rosenberger

RPC-N
50 Ω

Traceability Kit
Reflection

05CK060-150



Contents

Device	Part number	Quantity	Calibration Option ^a
Mismatch plug VSWR 1.2	05S150-060S3	1	FC / AC
Mismatch jack VSWR 1.2	05K150-060S3	1	FC / AC
Mismatch plug VSWR 1.5	05S150-075S3	1	FC / AC
Mismatch jack VSWR 1.5	05K150-075S3	1	FC / AC
Calibration Load plug	05S150-C10S3	1	FC / AC
Calibration Load jack	05K150-C10S3	1	FC / AC
Offset Short plug	05S12S-002S3	1	FC / AC
Offset Short jack	05K12S-002S3	1	FC / AC

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

Documentation

This kit is delivered with

- **USB-Stick**
With S2p data file of the reference measurement values. Calibration Certificate as PDF-file
- **Kit Info Card**
Handling precautions.
- **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
Mismatches VSWR 1.2 (plug and jack)	DC to ≤ 8 GHz > 8 GHz to ≤ 12.4 GHz > 12.4 GHz to ≤ 18 GHz	VSWR	1.2 ± 0.04 1.2 ± 0.05 1.2 ± 0.07
Mismatches VSWR 1.5 (plug and jack)	DC to ≤ 8 GHz > 8 GHz to ≤ 12.4 GHz > 12.4 GHz to ≤ 18 GHz	VSWR	1.5 ± 0.05 1.5 ± 0.07 1.5 ± 0.09
Offset Shorts^b (plug and jack)	DC to ≤ 4 GHz > 4 GHz to ≤ 8 GHz > 8 GHz to ≤ 18 GHz	Error from Nominal Phase	$\leq 1.2^\circ$ $\leq 1.5^\circ$ $\leq 2.5^\circ$
Calibration loads (plug and jack)	DC to ≤ 4 GHz > 4 GHz to ≤ 8 GHz > 8 GHz to ≤ 18 GHz	Return Loss	≥ 45 dB ≥ 32 dB ≥ 30 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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<div>Declaration of calibration options</div> <div>Factory Calibration</div> <p>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.</p> <div>Accredited Calibration</div> <p>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.</p> <p>All devices marked with “FC” only cannot be calibrated under accreditation. They are factory calibrated as described above.</p> <p>For further, more detailed information see application note AN001 on the Rosenberger homepage.</p> <div>Calibration interval</div> <p>Recommendation12 months</p> <div>Recommended accessories</div> <ul style="list-style-type: none">- Rosenberger Test Port Adaptor- Rosenberger Gauge Kit 05GK0KS-010- Rosenberger Calibration Kit 05CK010-150- Rosenberger VNA Test cable kit and Microwave Cable Assemblies <div>Necessary accessories</div> <ul style="list-style-type: none">- Torque wrench 53W009-000 (e.g. included in Rosenberger Calibration Kit 05CK010-150) <p>For further, more detailed information please visit our homepage www.rosenberger.com.</p>							
<p>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.</p>							
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