

Technical Data Sheet		Rosenberger
RPC-N 50 Ω	Traceability Kit Attenuation	05CK061-150



Contents

Device	Part number	Quantity	Calibration Option ^a
Attenuator 6 dB	05AS122-K06S3	1	FC / AC
Attenuator 10 dB	05AS122-K10S3	1	FC / AC
Attenuator 20 dB	05AS122-K20S3	1	FC / AC
Attenuator 40 dB	05AS122-K40S3	1	FC / AC

a. See “Declaration of calibration options” for explanation.

Documentation

This kit is delivered with

- **USB-Stick**
S2p data files and uncertainty data files of the reference measurements values.
Calibration Certificate as PDF file.
- **Kit Info Card**
Handling precautions
- **Calibration Certificate**
Details see "Declaration of calibration options"
- **User Manual**

Electrical data (typical)

These data cover typical electrical key values for the attenuators of the kit. Specific datasheets are available for each component among the part number.

	Frequency	Parameter	Specification
6 dB Attenuator	DC to ≤ 4 GHz > 4 GHz to ≤ 18 GHz	Return Loss ^b	≥ 32 dB ≥ 23 dB
	DC to ≤ 4 GHz > 4 GHz to ≤ 18 GHz	Attenuation ^b	6 dB ± 0.3 dB 6 dB ± 0.8 dB
10 dB Attenuator	DC to ≤ 4 GHz > 4 GHz to ≤ 18 GHz	Return Loss ^b	≥ 32 dB ≥ 23 dB
	DC to ≤ 4 GHz > 4 GHz to ≤ 18 GHz	Attenuation ^b	10 dB ± 0.3 dB 10 dB ± 0.8 dB
20 dB Attenuator	DC to ≤ 4 GHz > 4 GHz to ≤ 18 GHz	Return Loss ^b	≥ 32 dB ≥ 26 dB
	DC to ≤ 4 GHz > 4 GHz to ≤ 18 GHz	Attenuation ^b	20 dB ± 0.3 dB 20 dB ± 0.5 dB
40 dB Attenuator	DC to ≤ 4 GHz > 4 GHz to ≤ 18 GHz	Return Loss ^b	≥ 32 dB ≥ 23 dB
	DC to ≤ 4 GHz > 4 GHz to ≤ 18 GHz	Attenuation ^b	40 dB ± 0.5 dB 40 dB ± 1.0 dB

b. typical

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RPC-N
50 Ω

Traceability Kit
Attenuation

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Electrical verification standards

These Attenuators are designed as electrical verification standards. Reference measurement values (calibration results) for transmission and reflection are included. Connected to a calibrated VNA the actual measured transmission and reflection values can be compared to the reference measurement values and the quality of the VNA calibration can be evaluated.

Declaration of calibration options

Factory Calibration

Standard delivery for this kit includes a Factory Calibration. The Calibration Certificate issued reports individual transmission and reflection calibration results traceable to national / international standards. S2p data files with reference measurement values and measurement uncertainties in electronic format are included for each Attenuator.

Accredited Calibration

Optional this kit can be delivered with an Accredited Calibration (DAkkS) having the highest confidence in the traceability. The DAkkS Calibration Certificate issued reports individual transmission and reflection calibration results traceable to national / international standards. S2p data files with reference measurement values and measurement uncertainties in electronic format are included for each Attenuator. The measurement uncertainties are smaller than in a Factory Calibration.

For further, more detailed information see application note AN001 on the Rosenberger homepage.

Calibration interval

Recommendation 12 months

Recommended accessories

- Rosenberger 3dB Attenuator 05AS122-K03S3 to supplement this kit
- Rosenberger Calibration Adaptor 05S121-K20S3 to supplement this kit
- Rosenberger Test Port Adaptor
- Rosenberger Gauge Kit 05GK0KS-010
- Rosenberger Calibration Kit 05CK010-150
- Rosenberger VNA Test cable kit and Microwave Cable Assemblies

Necessary accessories

- Torque wrench 53W009-000 (e.g. included in Rosenberger Calibration Kit 05CK010-150)

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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
F. Reiner	23.01.18	L. Ramtke	06.03.25	a01	25-0004	D. d'Argent	06.03.25

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