



**Contents**

Device	Part number	QTY	Calibration Option <sup>a</sup>
20 dB Attenuator plug/jack	03AS122-K20S3	1	FC
40 dB Attenuator plug/jack	03AS122-K40S3	1	FC
Mismatch Airline plug/jack	03S102-K100	1	FC
Including 50 Ω Center Conductor	03S101-K100/20D	1	
Combi wrench	03W008-000	1	-

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

This Verification Kit is designed as an electrical verification standard. 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.

**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 items of the verification kit. Specific datasheets are available for each component among the part number.

Device	Frequency	Parameter	Specification
20 dB Attenuator	DC to ≤ 4 GHz > 4 GHz to ≤ 26.5 GHz DC to ≤ 26.5 GHz	Return Loss Return Loss Insertion Loss	≥ 32 dB ≥ 20 dB 20 dB ± 0.30 dB
40 dB Attenuator	DC to ≤ 4 GHz > 4 GHz to ≤ 26.5 GHz DC to ≤ 4 GHz > 4 GHz to ≤ 26.5 GHz	Return Loss Return Loss Insertion Loss Insertion Loss	≥ 32 dB ≥ 20 dB 40 dB ± 0.40 dB 40 dB ± 0.80 dB
25 Ω Mismatch Airline		Outer conductor: Diameter Length  Center Conductor: Diameter 50 Ω section Diameter 25 Ω section Length total Length 25 Ω section	3.500 mm nominal 100.00 mm nominal  1.520 mm nominal 2.307 mm nominal 100.00 mm nominal 75.00 mm nominal
50 Ω Airline Center Conductor		Diameter Length	1.520 mm nominal 100.00 mm nominal

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**Declaration of calibration options**

**Factory Calibration**

Standard delivery for this verification standard includes a Factory Calibration. The Calibration Certificate issued reports individual calibration results. Reflection results are traceable to national / international standards. A S2p data file with the reference measurement values is included.

**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 Gauge Kit 03GK0KS-010
- Rosenberger VNA Test cable kit and Microwave Cable Assemblies

*For further, more detailed information please visit our homepage [www.rosenberger.com](http://www.rosenberger.com).*

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Herbert Babinger	10.08.15	Martin Moder	04.12.19	a01	19-2230	M.Ruf	04.12.19

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