

High precision VNA Calibration Kit

Waveguide calibration kit for vector network analyzers based on ACST high precision manufacturing technology.

Contains:

- > Straight WG section (50 mm)
- > Matched WG load
- > Reference plane short
- > ¼ wave shim
- > Storage medium with calibration data

The family of waveguide calibration kits covers the range of frequencies **from 50 to 500 GHz** and is appropriate for use with instruments from all major manufacturers (incl. Keysight, Rohde & Schwartz or Anritsu). Suitable for frequency extenders. To aid in successful calibration, **4-40" UNC flange screws, appropriate screwdriver, alignment pins and a safety case** for storage of the kit are provided. Upon request additional components can be included to fulfill other calibration needs.



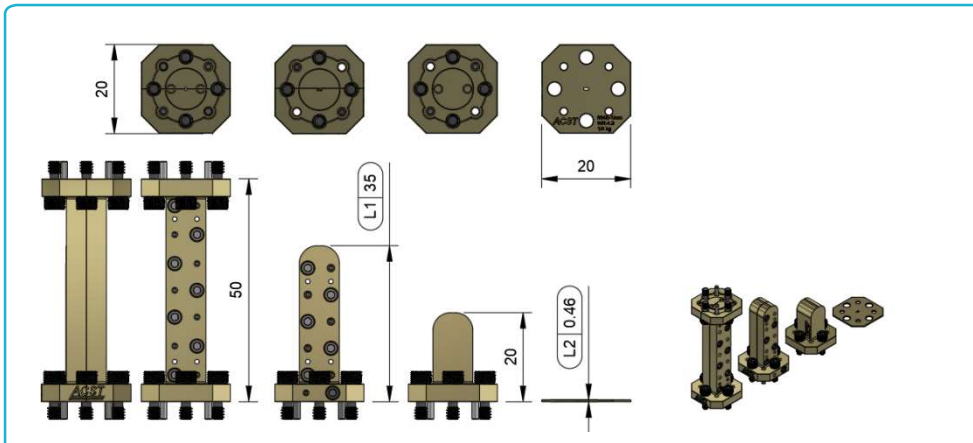
Technical Specification

PRODUCT	CK50	CK60	CK75	CK90	CK110	CK140	CK170	CK220	CK260	CK330
Band	WR-15	WR-12	WR-10	WR-8	WR-6.5	WR-5.1	WR-4.3	WR-3.4	WR-2.8	WR-2.2
Frequency Min [GHz]	50	60	75	90	110	140	170	220	260	330
Frequency Max [GHz]	75	90	110	140	170	220	260	330	400	500
Flange Width & Height [mm]	20 ±0.1									
WG Section Length [mm]	50 ±0.1									
Load Length [mm ±0.1] L1	35								17	
Load Return Loss [dB] *	35 ±6									
Shim WG length [um ±0.007] L2	1585	1305	1070	855	695	545	460	365	300	235
Section Insertion Loss (S21)[dB]	1.0 ± 0.2			1.5 ± 0.2			2.0 ± 0.2		2.5 ± 0.2	
Shim propagation delay [ps]	5.287	4.92	3.569	2.942	2.318	1.818	1.600	1.218	1.00	0.78
Material and Finish	Gold plated brass									

* Custom calibration kit components available upon request

High precision VNA Calibration Kit

Outline Dimensions



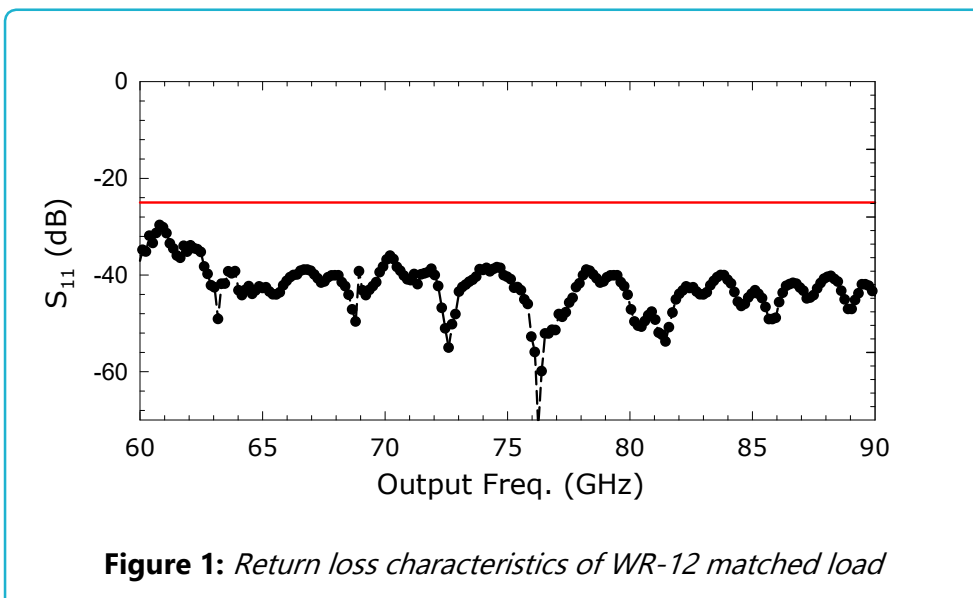
Notes

- > All plotted data represent typical values. Actual performance may vary from unit to unit.

Caution

- > Absolute maximum ratings should not be used under normal operating conditions. Exceeding maximum ratings may lead to permanent failure.
- > Any foreign body inserted into the waveguide will diminish performance and may cause damage to instruments.

Typical Performance



Order information

- Please indicate product name and type.
- Please indicate desired optional features



ACST GmbH reserves the right to make changes to the product or information contained herein without notice. Visit www.acst.de for additional data sheets and product information.