

STQ-TO-34-S1-CKIT1

WR-34 Waveguide Vector Analyzer Calibration Kit,
Metrology Grade

STQ-TO-34-S1-CKIT1 is a metrology grade WR-34 waveguide vector network analyzer (VNA) calibration kit designed to work with industry standard network analyzers in the frequency range of 22 to 33 GHz. The calibration kit consists of one fixed short, one fixed matching load, waveguide shims ($\frac{1}{8} \lambda g$, $\frac{1}{4} \lambda g$, $\frac{3}{8} \lambda g$ offsets), ten 3/32 hex head waveguide screws, six 3/32 hex head extended waveguide screws, four alignment dowel pins, a 3/32" hex waveguide screwdriver and one calibration data USB drive. The calibration kit is collected in a ruggedized box and is an ideal higher performance metrology grade calibration set for VNA system calibrations. **The calibration kit can be offered with NIST traceable calibration data and certification for an added fee.** Calibration data will be provided in Excel format. If other file types are needed, they can be converted using the following [Cal Kit Editor](#).



Components Included in the Kit:

Item	Eravant M/N	QTY
Metrology Fixed Short	STQ-WS-3-F1	1 pc.
Metrology Fixed Waveguide Load	STQ-WL-3423-S1	1 pc.
Metrology $\frac{1}{8}$ Wavelength Offset	STQ-WI-34069-SB	1 pc.
Metrology $\frac{1}{4}$ Wavelength Offset	STQ-WI-34138-SB	1 pc.
Metrology $\frac{3}{8}$ Wavelength Offset	STQ-WI-34207-SB	1 pc.
Waveguide Screws, 3/32 Hex	SWH-332-SS-10	1 Bag (10 pc.)
Extended Waveguide Screws, 3/32 Hex	SWH-332590-SS-01	6 pc.
Alignment Dowel Pin	SWH-625-PS-01	4 pc.
Waveguide Screw Driver, 3/32 Hex Head	SWH-332-DS	1 pc.
Calibration Data, USB Driver	STQ-TO-34-S1-U	1 pc.

ECCN

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FEATURES

- Precisely Machined and Manufactured
- Metrology Grade
- High Electrical Performance
- NIST Traceable

APPLICATIONS

- Vector Network Analyzer Calibration
- Scalar Network Analyzer Calibration
- General Test Lab Instrumentation

SUPPLEMENTAL DETAILS



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Electrical & Mechanical Specifications:

Item	Specification
Fixed Load VSWR	1.032:1 (Max)
Fixed Load Power Handling	0.2 Watts (Max)
Total Number of Included Hardware	10
Waveguide Flange	WR-34 Waveguide with UG-1530/U Flange
Waveguide Material	Beryllium Copper (BeCu)
Waveguide Finish	Gold Plated, MIL-G-45204 or ASTM B488
Size	8.41" [214 mm] x 6.76" [172 mm] x 3.87" [98 mm]
Outline	TO-34-CKIT

APPENDIX: CASE VIEW



STQ Case Outside View

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APPENDIX (CONT.)



NOTE:

- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Any foreign objects in the waveguide will cause performance degradation and possible device damage.