

STQ-TO-42-S1-CKIT1

WR-42 Waveguide Vector Analyzer Calibration Kit, Metrology Grade

STQ-TO-42-S1-CKIT1 is a metrology grade K-band waveguide vector network analyzer (VNA) calibration kit designed to work with industry standard network analyzers in the frequency range of 18 to 26.5 GHz. The calibration kit consists of one fixed short, one fixed matching load, waveguide shims ($\frac{1}{8}$ λ g, $\frac{1}{4}$ λ g, $\frac{3}{8}$ λ 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.**



Components Included in the Kit:

| Item | Eravant Model Number | Quantity |
|---|----------------------|-------------------|
| Metrology Fixed Short | STQ-WS-K-F1 | 1 pc. |
| Metrology Fixed Waveguide Load | STQ-WL-4223-S1 | 1 pc. |
| Metrology $\frac{1}{8}$ Wavelength Offset | STQ-WI-42086-SB | 1 pc. |
| Metrology $\frac{1}{4}$ Wavelength Offset | STQ-WI-42171-SB | 1 pc. |
| Metrology $\frac{3}{8}$ Wavelength Offset | STQ-WI-42257-SB | 1 pc. |
| Waveguide Screws, 3/32 Hex Head | SWH-332-SS-10 | 1 Bag (10 pc.) |
| Extended Waveguide Screws, 3/32 Hex Head | SWH-332590-SS-01 | 6 pc. |
| Alignment Dowel Pin | SWH-625-PS-01 | 4 pc. |
| Waveguide Screwdriver, 3/32 Hex Head | SWH-332-DS | 1 pc. |
| Calibration Data, USB Driver | STQ-TO-42-S1-U | 1 pc. |

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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



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Electrical and Mechanical Specifications:

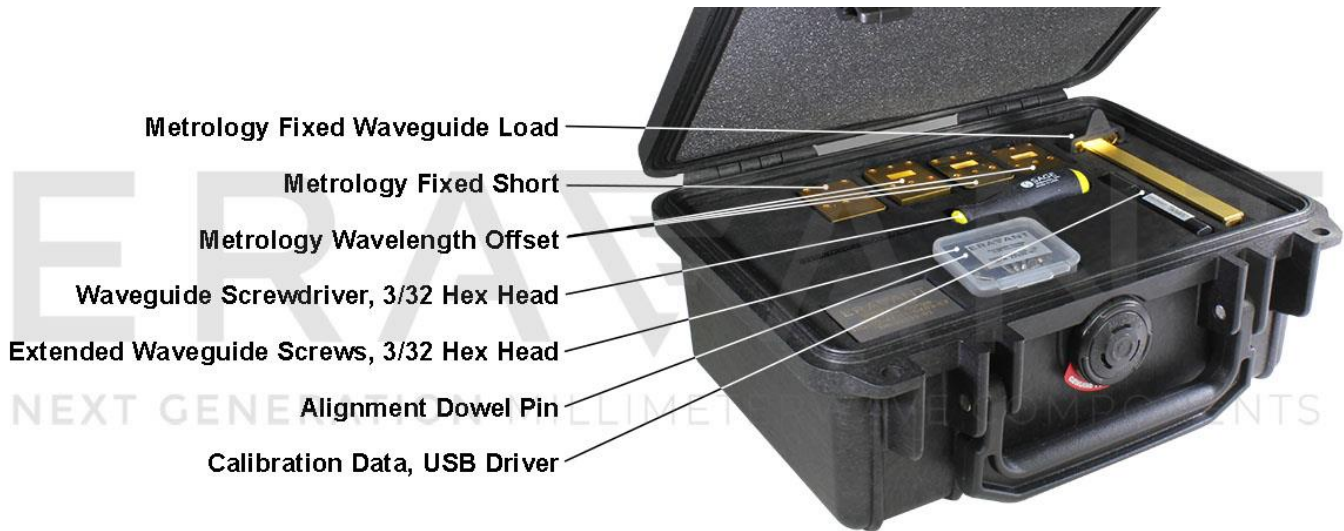
| Item | Specification |
|-----------------------------------|---|
| Fixed Load VSWR | 1.03:1 (Max) |
| Fixed Load Power Handling | 0.2 Watts (Max) |
| Total Number of Included Hardware | 10 |
| Waveguide Flange | WR-42 Waveguide with UG-595/U Flange |
| Waveguide Material | Beryllium Copper (BeCu) |
| 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-K-CKIT |

APPENDIX: CASE VIEW



STQ Case Outside View

APPENDIX (CONT.)



STQ Case Inside View

NOTE:

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

CAUTION:

- Any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.