



WR-06 Waveguide Vector Analyzer Calibration Kit, Metrology Grade

Description:

Model STQ-TO-06-S1-CKIT1 is a metrology grade D-band waveguide vector network analyzer (VNA) calibration kit designed to work with industry standard network analyzers in the frequency range of 110 to 170 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), two waveguide quick connects, ten 3/32 hex head waveguide screws, six 3/32 hex head extended waveguide screws, four alignment dowel pins, a 3/32" hex waveguide screw driver 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.



Features:

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

Applications:

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

Components Included in the Kit:

| Item | SAGE Model Number | Quantity |
|--|-------------------|-------------------|
| Metrology Fixed Short | STQ-WS-VG-F1 | 1 Piece |
| Metrology Fixed Waveguide Load | STQ-WL-0623-S1 | 1 Piece |
| Metrology $\frac{1}{8}$ Wavelength Offset | STQ-WI-06014-SB | 1 Piece |
| Metrology $\frac{1}{4}$ Wavelength Offset | STQ-WI-0628-SB | 1 Piece |
| Metrology $\frac{3}{8}$ Wavelength Offset | STQ-WI-0642-SB | 1 Piece |
| Waveguide Quick Connect, 0.75" Diameter Flange | SWH-QC-0750C-R2 | 2 Pieces |
| Waveguide Screws, 3/32 Hex Head | SWH-332-SS-10 | 1 Bag (10 Pieces) |
| Extended Waveguide Screws, 3/32 Hex Head | SWH-332590-SS-01 | 6 Pieces |
| Alignment Dowel Pin | SWH-625-PS-01 | 4 Pieces |
| Waveguide Screw Driver, 3/32 Hex Head | SWH-332-DS | 1 Piece |
| Calibration Data, USB Driver | STQ-TO-06-S1-U | 1 Piece |



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Electrical and Mechanical Specifications:

| Item | Specification |
|-----------------------------------|---|
| Fixed Load VSWR | 1.06:1 (Max) |
| Fixed Load Power Handling | 0.2 Watts (Max) |
| Total Number of Included Hardware | 11 |
| 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-D-CKIT |

