



WR-42 Waveguide Vector Analyzer Calibration Kit, 18 to 26.5 GHz

Description:

Model STQ-TO-42-U3-CKIT1 is a Ka-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 two straight waveguide sections, one fixed short, one fixed matching load, one sliding load, one ¼ wavelength offset, two waveguide quick connects, ten 3/32 hex head waveguide screws, a 3/32" hex waveguide screw driver and one calibration data USB drive. The calibration kit is collected in a wooden 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 Straight Waveguide Section, 2" Long | STQ-WG-42020-FM-A | 2 Pieces |
| Metrology Fixed Short | STQ-WS-K3-F2 | 1 Piece |
| Metrology Fixed Waveguide Load | STQ-WL-4230-S7 | 1 Piece |
| Metrology Sliding Waveguide Load | STQ-WS-4227-T2 | 1 Piece |
| Metrology ¼ Wavelength Offset | STQ-WI-42168-U2 | 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) |
| Waveguide Screwdriver, 3/32 Hex Head | SWH-332-DS | 1 Piece |
| Calibration Data, USB Drive | STQ-TO-42-U3-U | 1 Piece |

Electrical and Mechanical Specifications:

| Item | Specification |
|-----------------------------------|---|
| Fixed Load VSWR | 1.03:1 (Max) |
| Fixed Load Power Handling | 1.0 Watts (Max) |
| Adapter VSWR | 1.20:1 (Max) |
| Total Number of Included Hardware | 11 |
| Waveguide Material | Brass |
| Waveguide Finish | Gold Plated, MIL-G-45204 or ASTM B488 |
| Weight | 62 Oz [1,750 g] |
| Size | 12.6" [320 mm] x 7.9" [200 mm] x 3.2" [80 mm] |
| Outline | TO-K-CKIT-CE1 |

