



WR-42 Waveguide Vector Analyzer Calibration Kit, Metrology Grade

Description:

Model 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 ($\frac{1}{8}\lambda_g$, $\frac{1}{4}\lambda_g$, $\frac{3}{8}\lambda_g$ 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 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. **The calibration kit can be offered with NIST traceable calibration data and certification for an added fee.**



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

Components Included in the Kit:

Item	SAGE Model Number	Quantity
Metrology Fixed Short	STQ-WS-K-F1	1 Piece
Metrology Fixed Waveguide Load	STQ-WL-4223-S1	1 Piece
Metrology $\frac{1}{8}$ Wavelength Offset	STQ-WI-42086-SB	1 Piece
Metrology $\frac{1}{4}$ Wavelength Offset	STQ-WI-42171-SB	1 Piece
Metrology $\frac{3}{8}$ Wavelength Offset	STQ-WI-42257-SB	1 Piece
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-42-S1-U	1 Piece



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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 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

