ERAVANT

WR-03 Waveguide Vector Analyzer Calibration Kit, Metrology Grade

STQ-TO-03-S1-CKIT1 is a metrology grade WR-03 waveguide vector network analyzer (VNA) calibration kit designed to work with industry standard network analyzers in the frequency range of 220 to 330 GHz. The calibration kit consists of one fixed short, one fixed matching load, waveguide shims (⅝ λg, ¼ λg, and ⅜ λg 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 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. 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 Model Number	Quantity
Metrology Fixed Short	STQ-WS-VG-F1	1 pc.
Metrology Fixed Waveguide Load	STQ-WL-0323-S1	1 pc.
Metrology ⅝ Wavelength Offset	STQ-WI-03035-SB	1 pc.
Metrology ¼ Wavelength Offset	STQ-WI-03014-SB	1 pc.
Metrology ⅜ Wavelength Offset	STQ-WI-03021-SB	1 pc.
Waveguide Quick Connect, 0.75" Diameter Flange	SWH-QC-0750C-R2	2 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-03-S1-U	1 pc.

ECCN

EAR99

FEATURES

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

APPLICATIONS

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

Electrical and Mechanical Specifications:

Item	Specification
Fixed Load Return Loss	25 dB (Typ)
Fixed Load Power Handling	0.2 Watts (Max)
Total Number of Included Hardware	11
Waveguide Flange	WR-03 Waveguide with UG-387/U-M 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-03-CKIT

APPENDIX: CASE VIEW

STQ Case Outside View

APPENDIX (CONT.)

Metrology Fixed Waveguide Load

Metrology Fixed Short

Metrology Wavelength Offsets

Waveguide Screwdriver, 3/32 Hex Head

Waveguide Quick Connect, 0.75" Diameter Flange

Extended Waveguide Screws, 3/32 Hex Head

Alignment Dowel Pin

Calibration Data, USB Driver

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.