

## STQ-TO-1F1M-U3-CKIT1

## 1.0 mm Coaxial Vector Analyzer Calibration Kit, DC to 120 GHz, for Agilent and Keysight VNAs

**STQ-TO-1F1M-U3-CKIT1** is a 1.0 mm male coaxial vector network analyzer (VNA) calibration kit designed to work with Agilent and Keysight network analyzers in the frequency range of DC to 120 GHz. The calibration kit consists of 1.0 mm male and female opens, shorts, matching loads, 1.0 mm male to male, male to female, and female to female adapters, a 15/64" Hex Torque wrench, a card wrench and a U disk. It is collected in a wooden 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 P/N	Quantity
Metrology 1.0 mm Load with Male Connector	STQ-CM-1M27-U2	1 Piece
Metrology 1.0 mm Load with Female Connector	STQ-CM-1F27-U2	1 Piece
Metrology 1.0 mm Open with Male Connector	STQ-CO-1M-U2	1 Piece
Metrology 1.0 mm Open with Female Connector	STQ-CO-1F-U2	1 Piece
Metrology 1.0 mm Short 1 with Male Connector	STQ-CR-1M-U2-1	1 Piece
Metrology 1.0 mm Short 2 with Male Connector	STQ-CR-1M-U2-2	1 Piece
Metrology 1.0 mm Short 3 with Male Connector	STQ-CR-1M-U2-3	1 Piece
Metrology 1.0 mm Short 4 with Male Connector	STQ-CR-1M-U2-4	1 Piece
Metrology 1.0 mm Short 1 with Female Connector	STQ-CR-1F-U2-1	1 Piece
Metrology 1.0 mm Short 2 with Female Connector	STQ-CR-1F-U2-2	1 Piece
Metrology 1.0 mm Short 3 with Female Connector	STQ-CR-1F-U2-3	1 Piece
Metrology 1.0 mm Short 4 with Female Connector	STQ-CR-1F-U2-4	1 Piece
Metrology 1.0 mm Male to Male Adapter	STQ-CT-1M1M-U2	1 Piece
Metrology 1.0 mm Female to Male Adapter	STQ-CT-1F1M-U2	1 Piece
Metrology 1.0 mm Female to Female Adapter	STQ-CT-1F1F-U2	1 Piece
Metrology 15/64" Hex Torque Wrench	STQ-CH-06004-U2	1 Piece
Metrology Card Wrench		1 Piece
U Disk		1 Piece

### ECCN

EAR99

### FEATURES

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

### APPLICATIONS

- Agilent and Keysight Vector Network Analyzer Calibration
- Agilent and Keysight Scalar Network Analyzer Calibration
- General Test Lab Instrumentation

### SUPPLEMENTAL DETAILS



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Electrical Mechanical Specifications:

Item	Frequency	Specification
Load VSWR	DC-18 GHz	1.07:1 (Max)
	18-40 GHz	1.11:1 (Max)
	40-50 GHz	1.14:1 (Max)
Load Power Handling		0.5 Watts (Max)
Open Phase Error	DC-20 GHz	±2.00° (Max)
	20-50 GHz	±3.50° (Max)
	50-80 GHz	±7.00° (Max)
	80-120 GHz	±8.00° (Max)
Short 1, 2, & 4 Phase Error	DC-20 GHz	±1.50° (Max)
	20-50 GHz	±2.30° (Max)
	50-80 GHz	±3.25° (Max)
	80-100 GHz	±3.50° (Max)
	100-120 GHz	±4.00° (Max)
Short 3 Phase Error	DC-20 GHz	±2.50° (Max)
	20-50 GHz	±4.50° (Max)
	50-100 GHz	±5.00° (Max)
	100-120 GHz	±5.05° (Max)
Adapter VSWR		1.38 (Max)
Total Number of Included Hardware		18
Connector Contact Material		Beryllium Copper (BeCu)
Product Finish		Gold Plated, MIL-G-45204 or ASTM B488
Weight		55 Oz [1,550 g]
Size		12.6" [320 mm] x 7.5" [190 mm] x 3.2" [80 mm]
Outline		TO-C-CKIT-CE1