

## WR-19 Proxi-Flange™ Contactless Flange Straight Waveguide Section

**STQ-WG-19025-FB-CF** is an Eravant trademarked Proxi-Flange™, patented, with a U-band contactless flange straight waveguide section with WR-19 waveguides and UG-383/U-M Anti-Cocking flanges. The Proxi-Flange™ is constructed with a special waveguide flange populated with an array of small pin-like structures to realize the RF choking actions. The Proxi-Flange™ avoids the problem of poor return loss and high insertion loss caused by imperfect contact when two waveguide flanges are mated. The captive screws normally used in waveguide test sets can cause cocking issues if tightened unevenly, but Proxi-Flange™ eliminates the need for any waveguide screws, resulting in improved device durability, measurement consistency, and test repeatability. Eravant's Wave-Glide™, patented, fixture - the Novel Apparatus of Millimeter-Wave Frequency for Accurate and Automatic Testing, further enhances the Proxi-Flange™ benefits and makes it the perfect candidate for volume production and automatic test lines where frequent connection and disconnection between DUTs and test equipment occurs. Model STQ-WG-19025-FB-CF is offered to cover the frequency range of 40 to 60 GHz with an insertion length of 2.5". Other insertion lengths and other frequency bands are offered under various model numbers to cover frequency ranges from 18 to 325 GHz.

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	40 GHz		60 GHz
Insertion Loss		1.0 dB	
Return Loss		30 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

### Mechanical Specifications:

Item	Specification
Waveguide Size	WR-19 Waveguide with UG-383/U-M Anti-Cocking Flange
Insertion Length	2.5"
Flange Material	Beryllium Copper(BeCu)
Waveguide Material	Beryllium Copper(BeCu)
Finish	Gold Plated
Weight	0.7 Oz
Outline	WG-FU-A-CF



### ECCN

- EAR99

### FEATURES

- Frequency Range: 40 to 60 GHz
- Contactless Connection
- Rugged Waveguide Configuration
- Low Insertion Loss
- High Return Loss

### APPLICATIONS

- Test Instrumentation
- Automatic Test Setup
- Volume Production Testing

### RECOMMENDED PAIRINGS

- Cal-kit: STQ-TO-19-S1-CKIT1
- Wave-Glide™ Rail System
- Waveguide Quick Connects



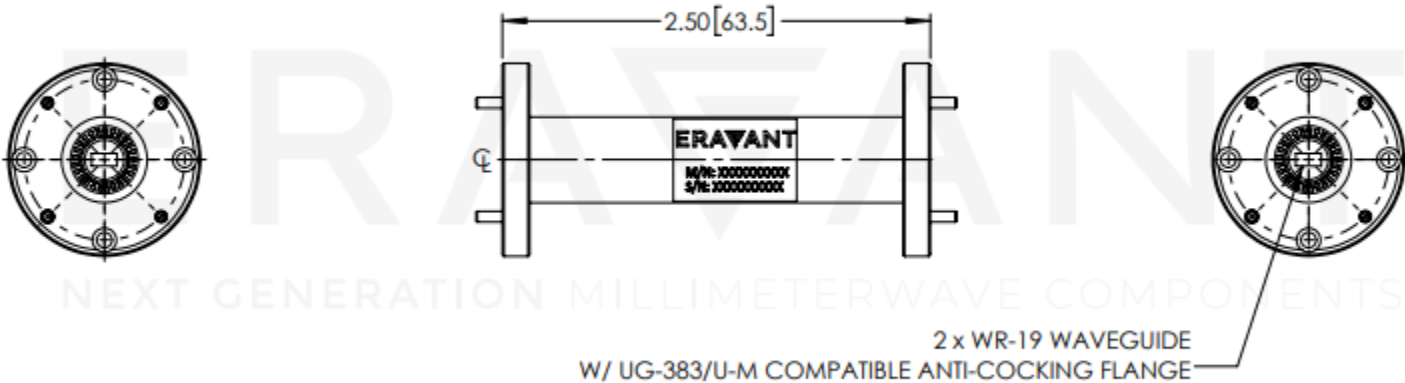
STQ-WG-19025-FB-CF

Components Included in Each Kit

Item	Eravant Model Number	Quantity
Waveguide Screws, 3/32 Hex Head	SWH-332-SS-10	1 Container(10 Pieces)
Contactless Flange	STQ-WG-19025-FB-CF	1 Piece
Waveguide Screwdriver, 3/32 Hex Head	SWH-332-DS	1 Piece
USB Flash Drive	-	1 Piece
Black Test Equipment Case	-	1 Piece

Mechanical Outline

(Unless otherwise specified, all dimensions are in inches [millimeters])



NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- Other mechanical configurations with different lengths and other frequency bands are available under different model numbers.
- The Proxi-Flange™ family is a trademarked and patented product of Eravant.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Any foreign objects in the waveguide will cause performance degradation and possible device damage.

STQ-WG-19025-FB-CF

APPENDIX: CONTACTLESS FLANGE CASE AND FRONT VIEW



STQ Contactless Flange Front View



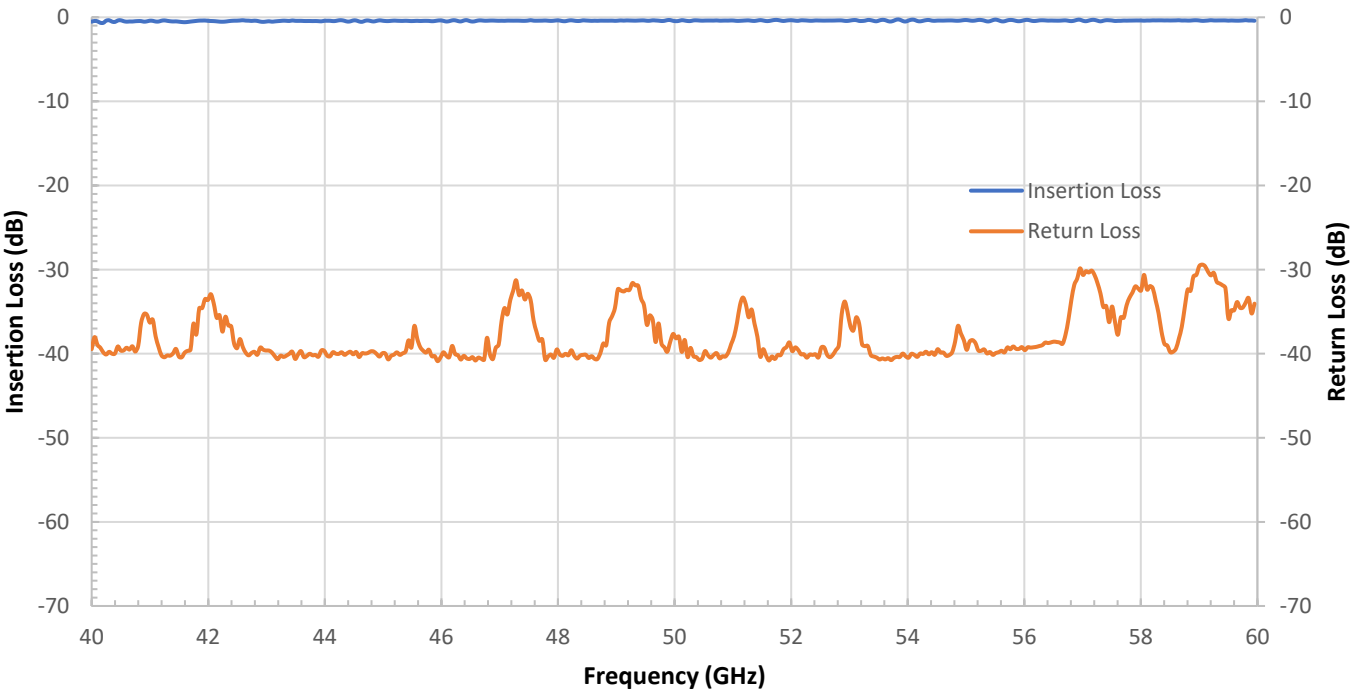
STQ Case Outside View



STQ Case Inside View

APPENDIX: TYPICAL PERFORMANCE

Typical Performance vs. Frequency



ERAVANT

MAKING MILLIMETERWAVE ACCESSIBLE