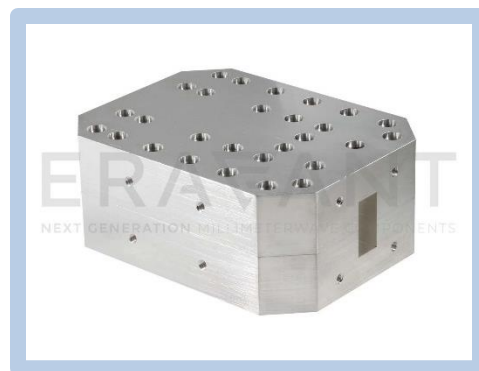




WR-62 Orthomode Transducer, Square Waveguide Port

Description

Model SAT-F6-62262-S1 is a full Ku band, WR-62 orthomode transducer (OMT) that operates between 12.4 and 18 GHz. The OMT separates a circular or elliptical polarized waveform into two linear, orthogonal waveforms or combines two linear polarized waveforms into one circular or elliptical polarized waveform or vice versa. The OMT also supports either vertical or horizontal polarized waveguide forms. The OMT shows high port isolation while providing a low insertion loss. The OMT is configured with a 0.622" x 0.622" square waveguide for the antenna port and two WR-62 waveguides for the horizontal and vertical ports. All ports have standard UG-419/U flanges and 6-32 threaded holes.



Features:

- Full Band Performance
- High Port Isolation
- Low Insertion Loss

Applications:

- Radar Systems
- Communication Systems
- Antenna Ranges
- Circular and Linear Waveform Separation and Combination

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	12.4 GHz		18.0 GHz
Insertion Loss (H to A Port)		0.4 dB	
Insertion Loss (V to A Port)		0.4 dB	
Isolation (H to V Port)		40 dB	
Return Loss (H Port)		20 dB	
Return Loss (V Port)		20 dB	
Return Loss (A Port, Vertical)		20 dB	
Return Loss (A Port, Horizontal)		20 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

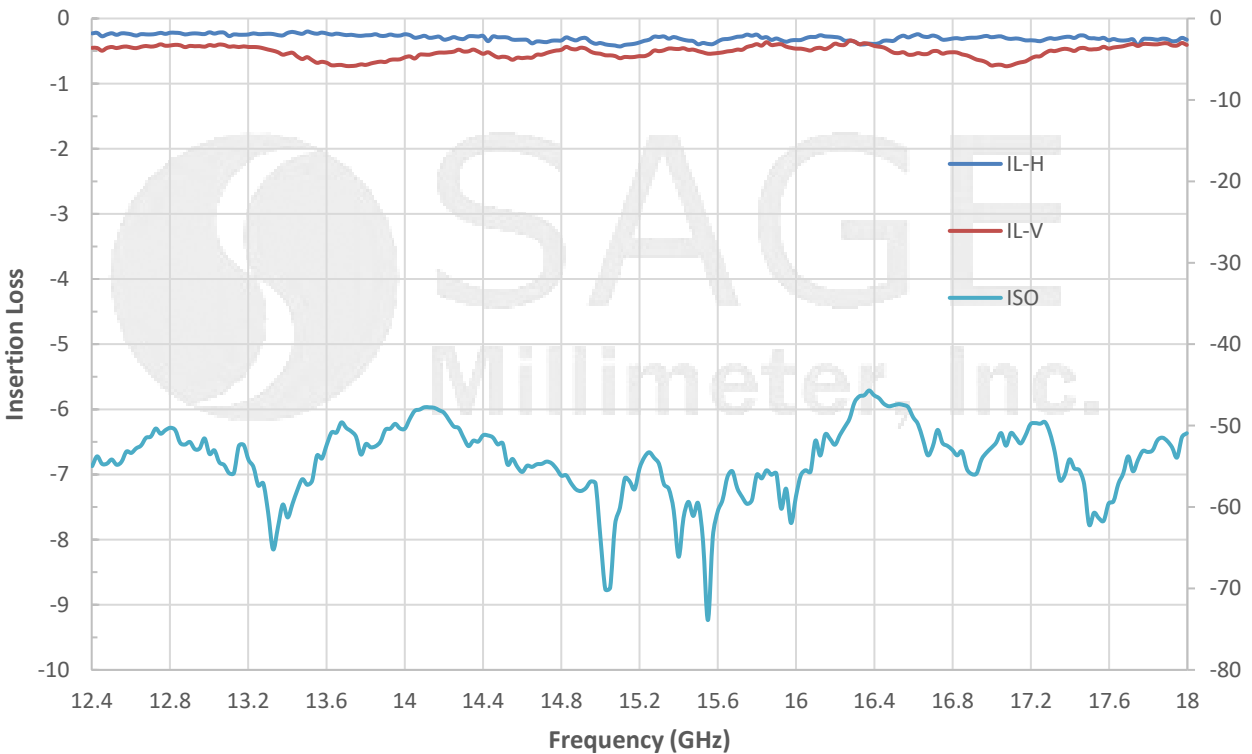
Item	Specification
Antenna Port	0.622" x 0.622" Square Waveguide
Horizontal and Vertical Ports	WR-62 Waveguide
Flange Type	UG-419/U 6-32 Threaded Holes
Material and Finish	Silver Plated
Weight	0.9 lb
Outline	AT-6S-622-F



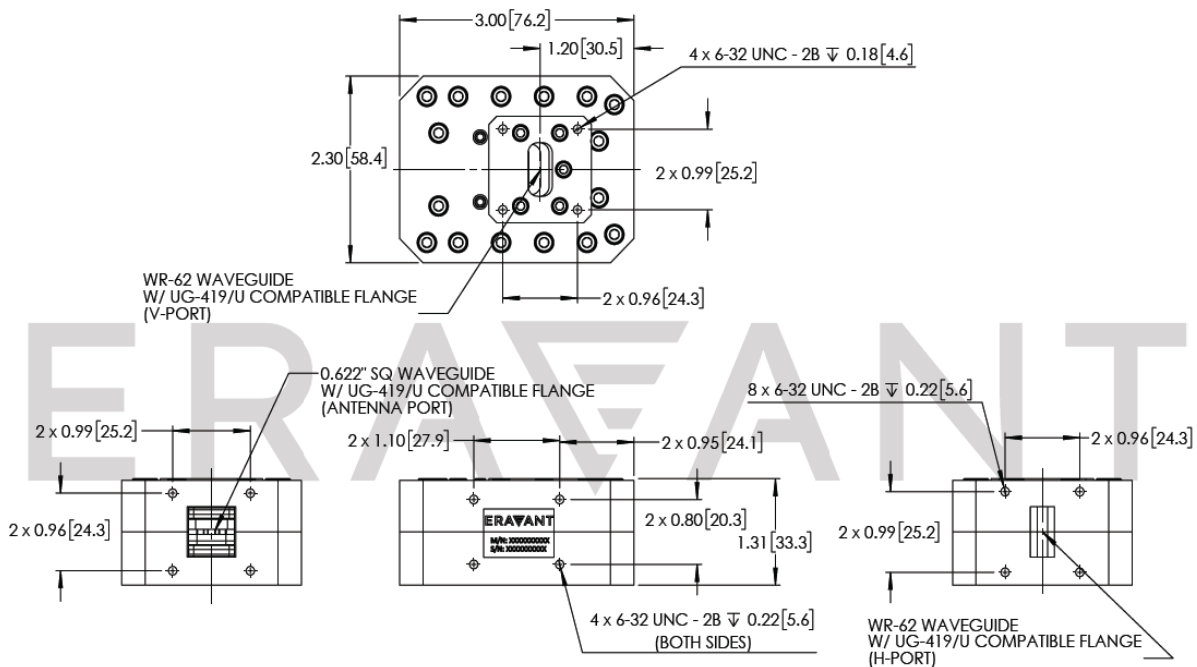


WR-62 Orthomode Transducer, Square Waveguide Port

Typical Performance Vs. Frequency



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



www.eravant.com | 501 Amapola Ave, Torrance, CA 90501
Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@eravant.com



WR-62 Orthomode Transducer, Square Waveguide Port

Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- All testing was performed under +25 °C room temperature.
- Eravant reserves the right to change the information presented without notice.

Caution:

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

