SAV-0636731429-VF-S1

Dual-Ridged, Horn Antenna, 6 to 67 GHz

SAV-0636731429-VF-S1 is a dual ridged broadband horn antenna that operates from 6 to 67 GHz. The antenna offers a typical gain of 14 dBi and a typical 3 dB beamwidth of 29 degrees on both the E-plane and H-plane, respectively. The antenna supports linear polarized waveforms . The antenna includes a mounting plate with a 1/4-20 threaded hole and various other mounting holes for flexile mounting capacity. The RF port is equipped with a 1.85 mm (V) (F) connector

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	6 GHz		67 GHz
Gain		14 dBi	
Polarization		Linear	
E-Plane, 3 dB Beamwidth		29°	
H-Plane, 3 dB Beamwidth		29°	
Sidelobe level, E plane		-10 dB	
Sidelobe level, H plane		-15 dB	
Port Return Loss		10 dB	
Cross Polarization		25 dB	
Power Handling			5 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Antenna Ports	1.85mm (F) Coax Connectors
Mounting	Mounting Plate with 1/4-20 threaded hole
Material	Aluminum
Finish	Chem Film (Antenna), Black Anodized (Antenna Mount Plate)
Weight	1.5 oz
Outline	AV-C14-DR-2

ECCN

EAR99

FEATURES

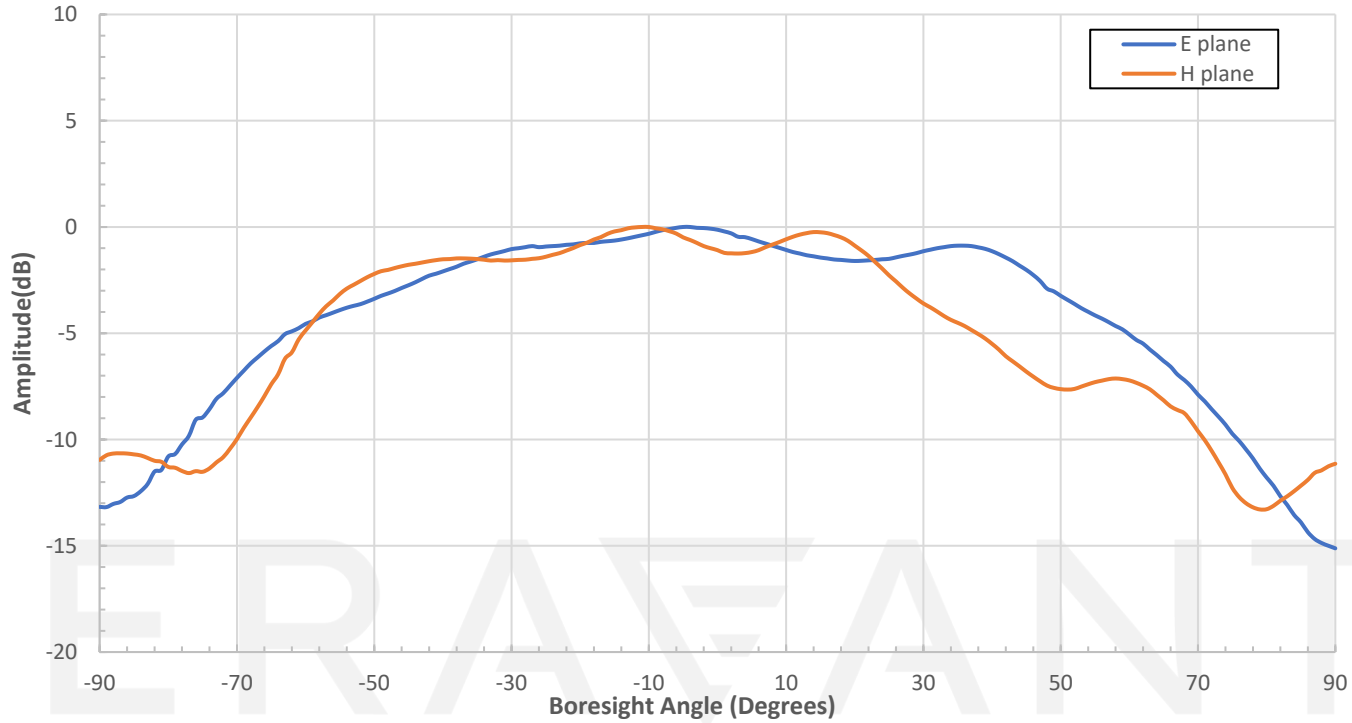
- Coaxial Connector for RF Input
- Broadband Coverage
- Circular and Linear Polarization
- Good Impedance Match

APPLICATIONS

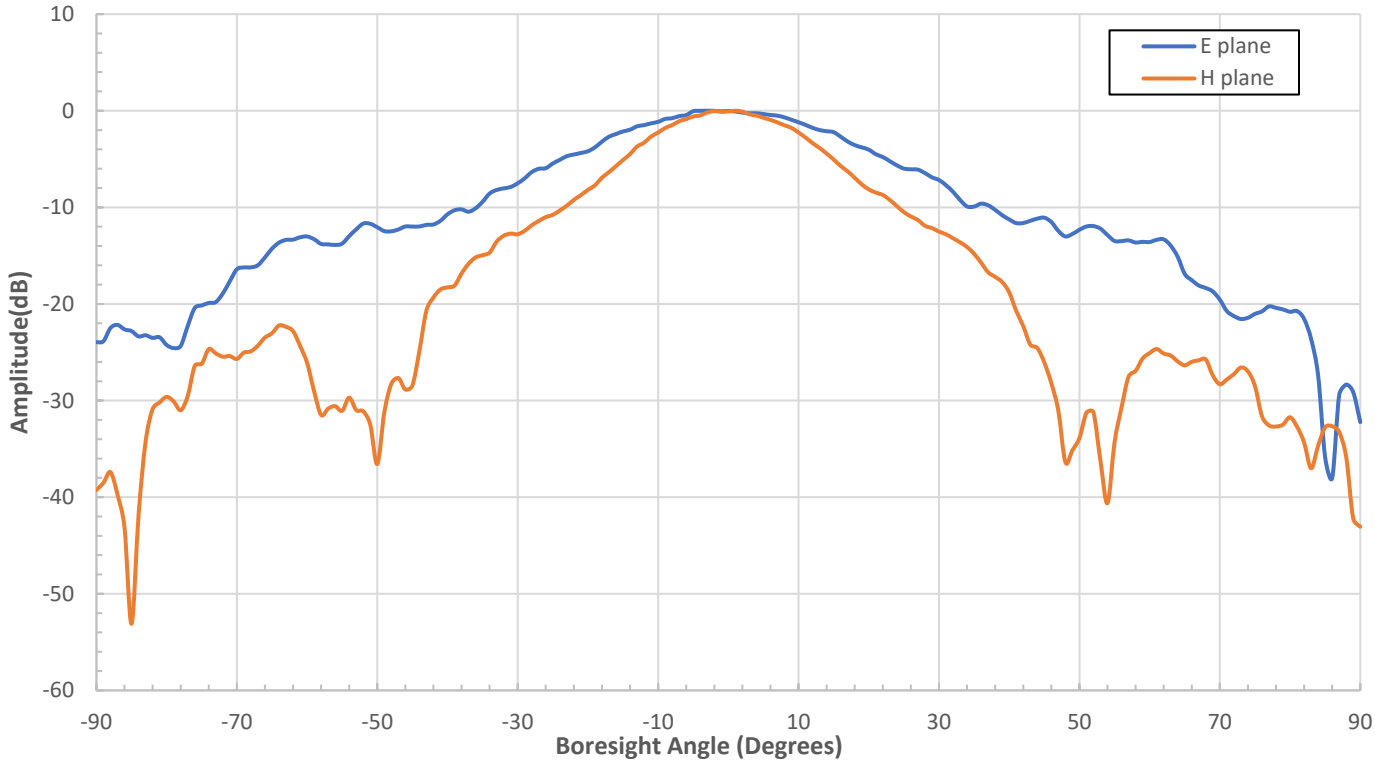
- Antenna Ranges
- Antenna Gain Measurements
- System Setups

SUPPLEMENTAL DETAILS

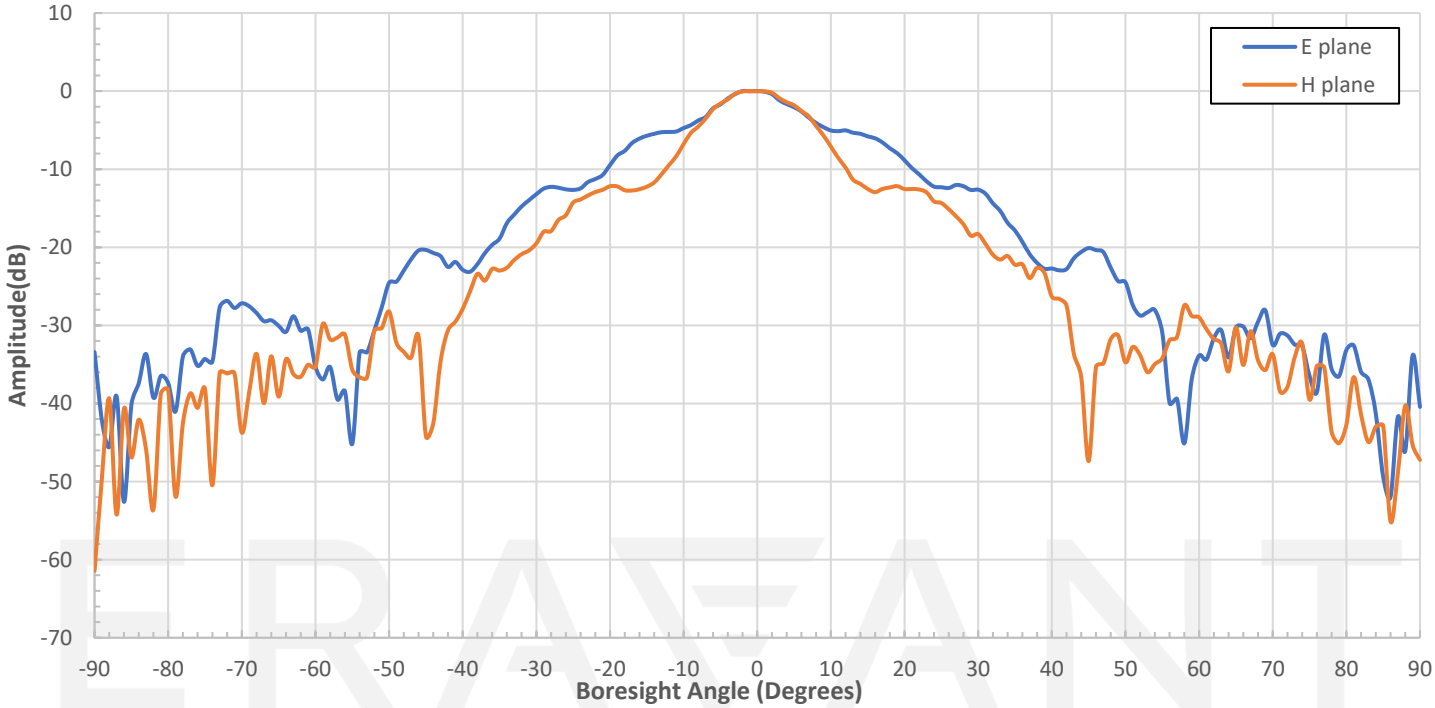
Measured Patterns at 6 GHz



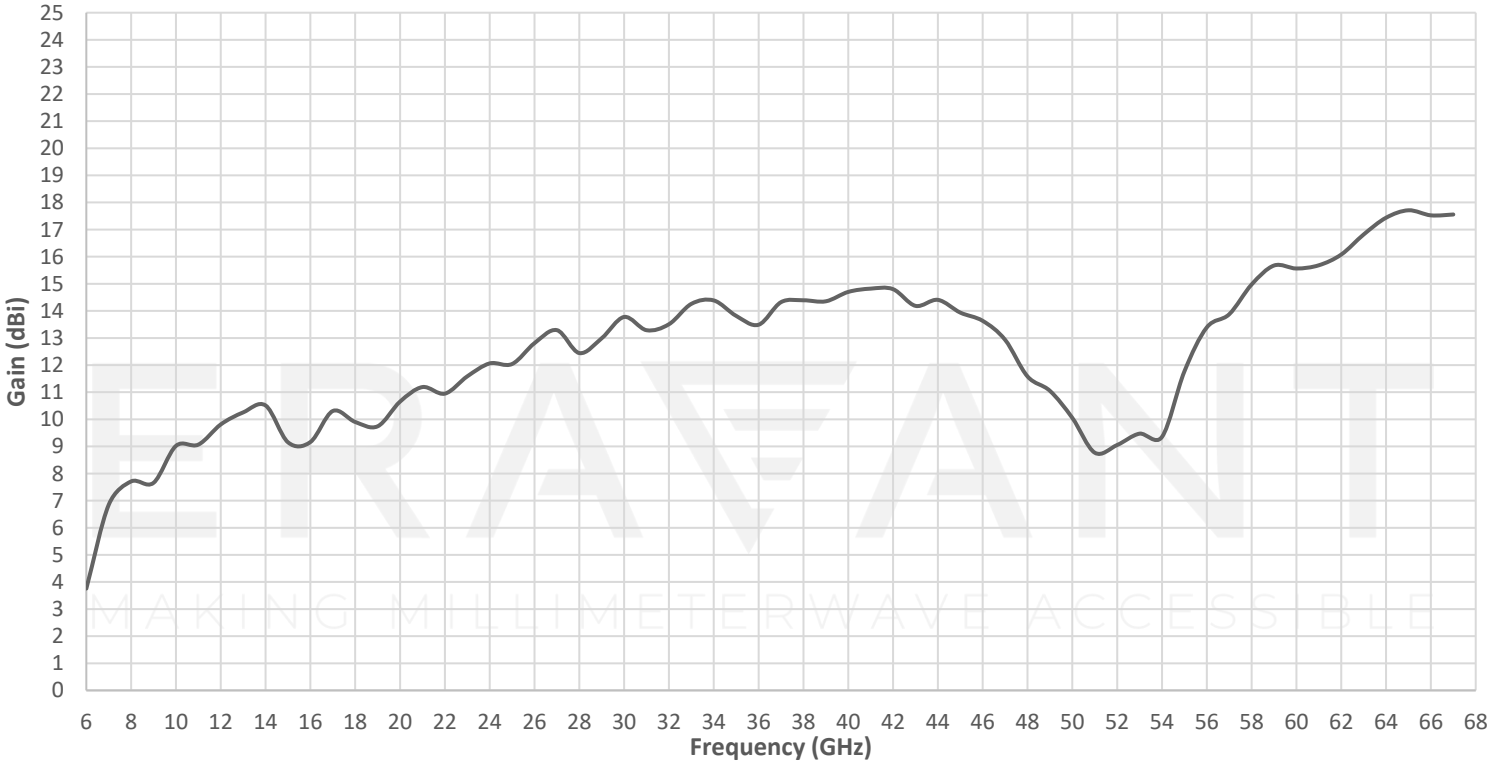
Measured Patterns at 36.5 GHz



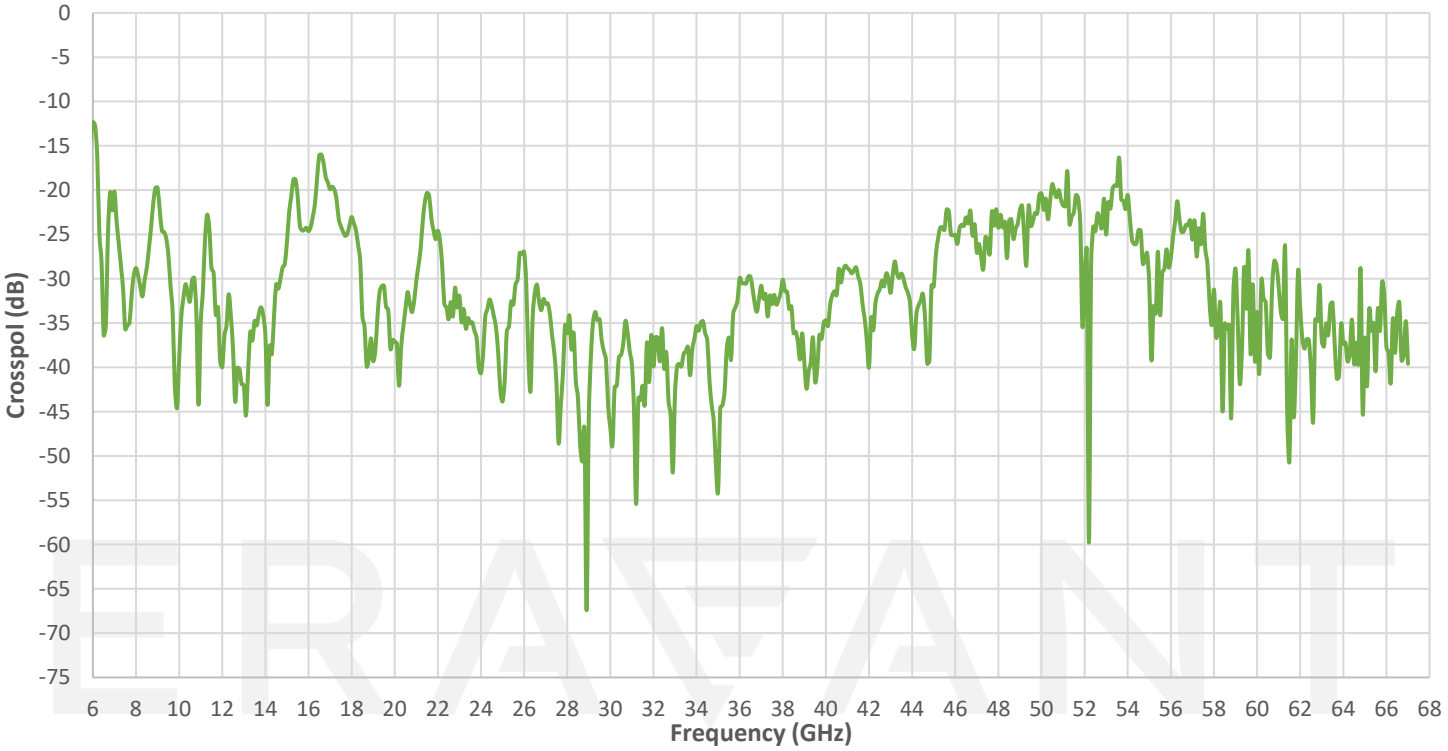
Measured Patterns at 67 GHz



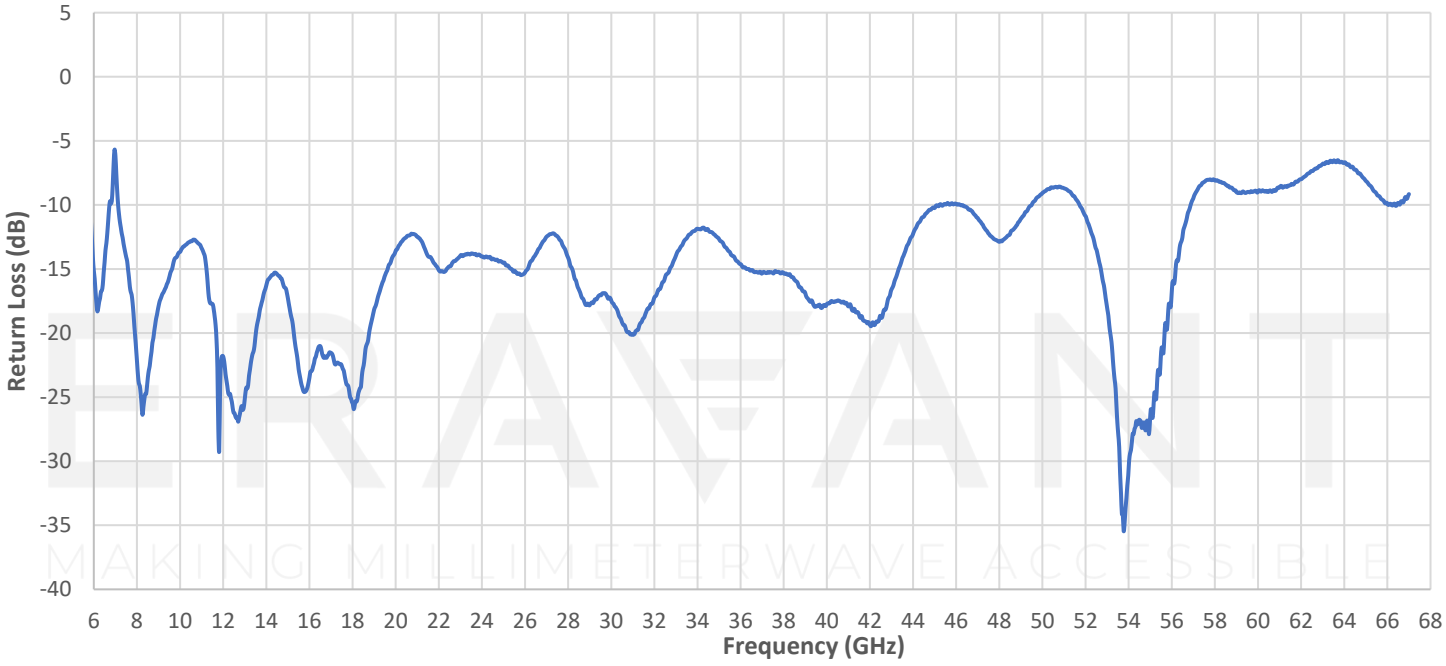
Measured Gain vs Frequency



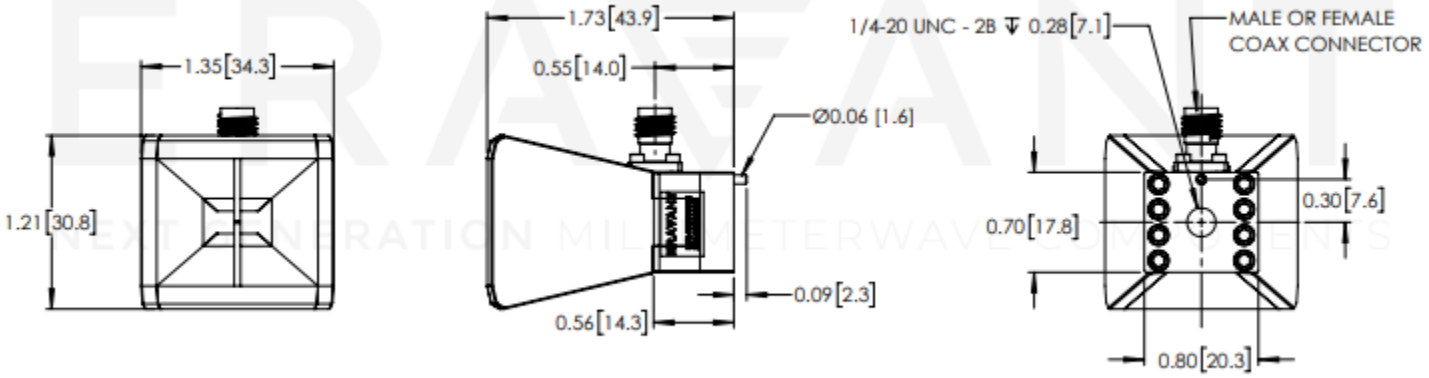
Measured Crosspol v Frequency



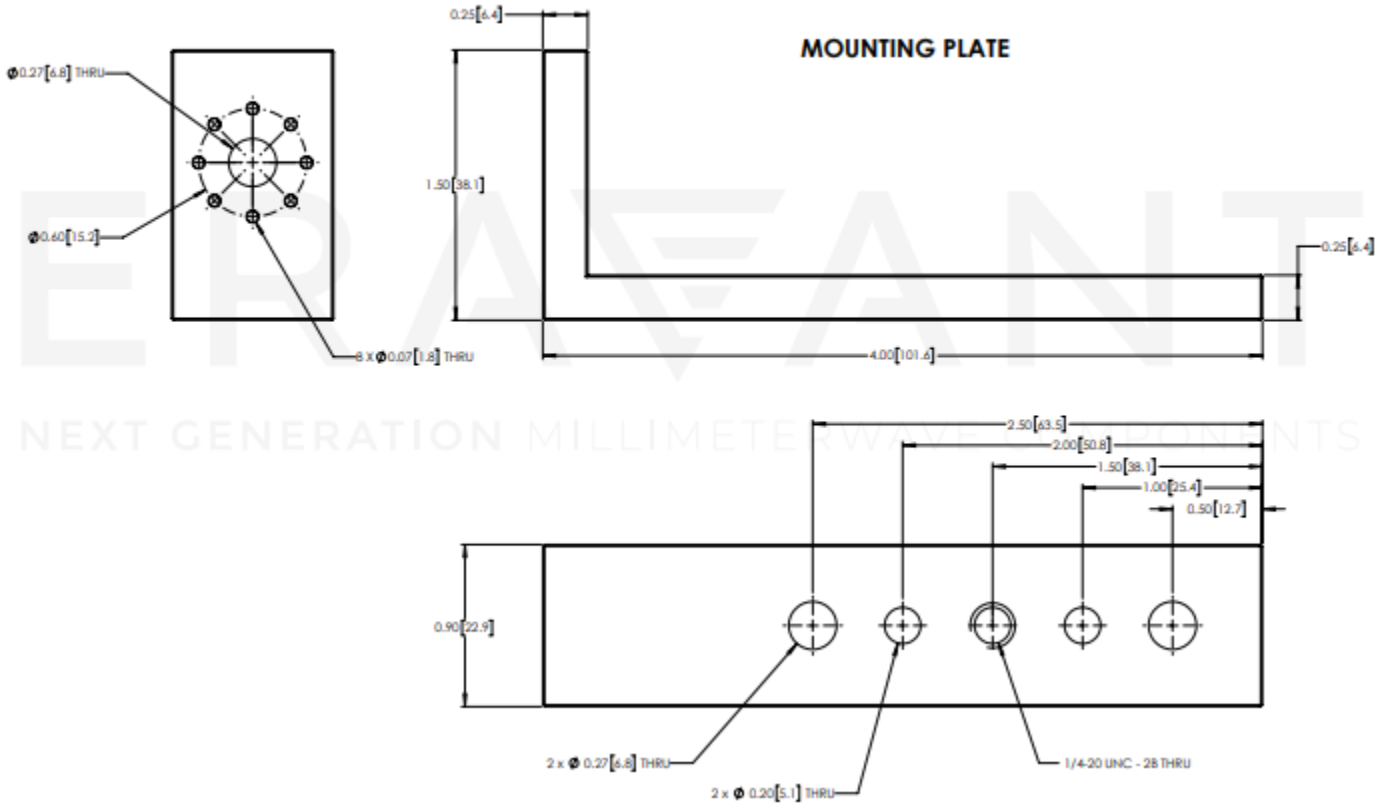
Measured Return loss vs Frequency



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



Antenna Mount Outline:



NOTE:

- Measured data is provided for a sample lot. Data will slightly vary from unit to unit.
- 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.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. Eravant torque wrench, model SCH-08008- S1, is highly recommended.

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