SAV-0131831240-SF-S1-WR

Dual Ridged Horn Antenna, Weather Resistant, 1 to 18 GHz

SAV-0131831240-SF-S1-WR is a weather resistant, dual-ridged broadband horn antenna that operates from 1 to 18 GHz and is designed for outdoor applications. The antenna offers a typical gain of 15 dBi and a typical 3 dB beamwidth of 30° on the E-plane and 25° and H-plane, respectively. The antenna supports linear polarized waveforms.The model is equipped with a radome to make it weather resistant. The RF port is equipped with a female SMA connector.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	1 GHz		18 GHz
Gain		15 dBi	
Polarization		Linear	
3 dB Beamwidth, E-Plane		30°	
3 dB Beamwidth, H-Plane		25°	
Return Loss		10 dB	
Input Impedance		50 Ω	
Power Handling			50 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Antenna Port	SMA (F)
Body Material	Aluminum
Radome Material	PTFE
Finish	Chem Film
Weight	16.45 lbs.
Outline	AV-C12-DR-WR

ECCN

EAR99

FEATURES

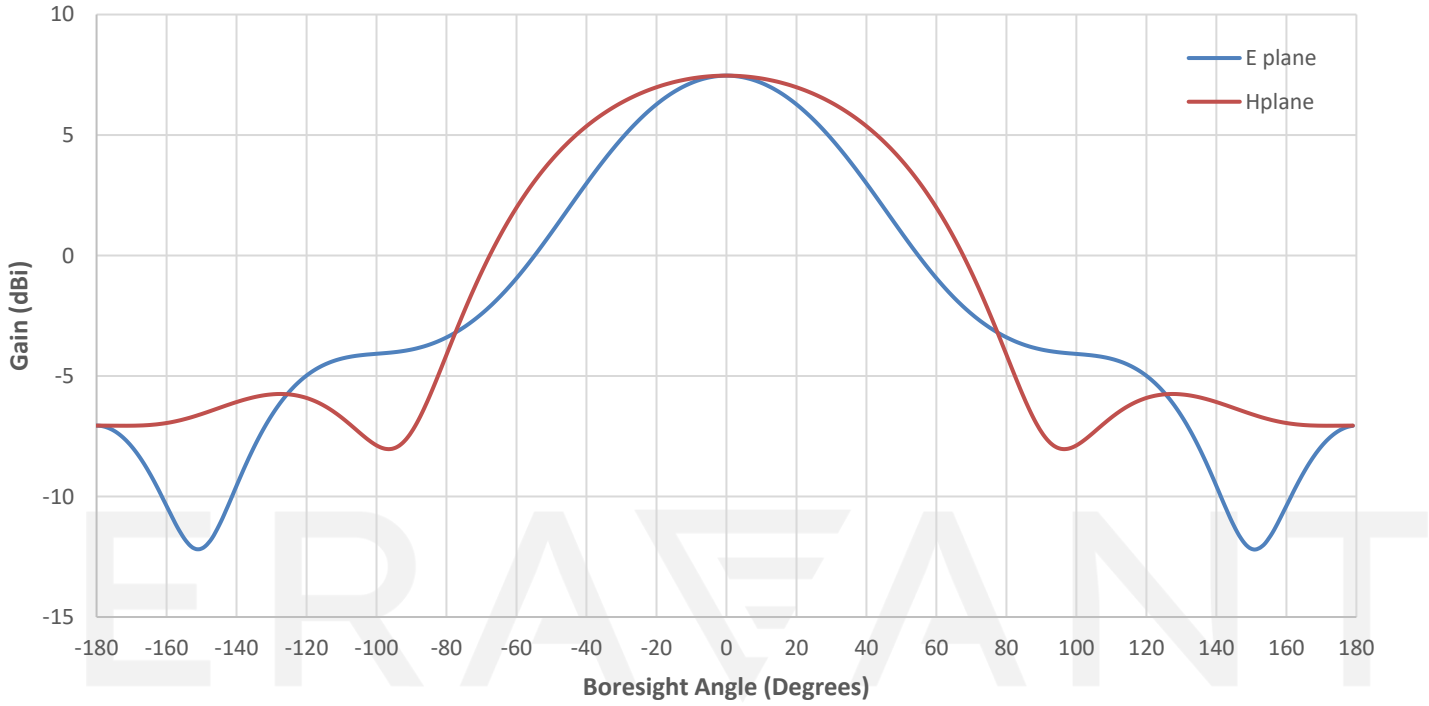
- Coaxial Connector for RF Input
- Broadband Width
- Linear Polarization
- Good Impedance Match
- Bubble Level

APPLICATIONS

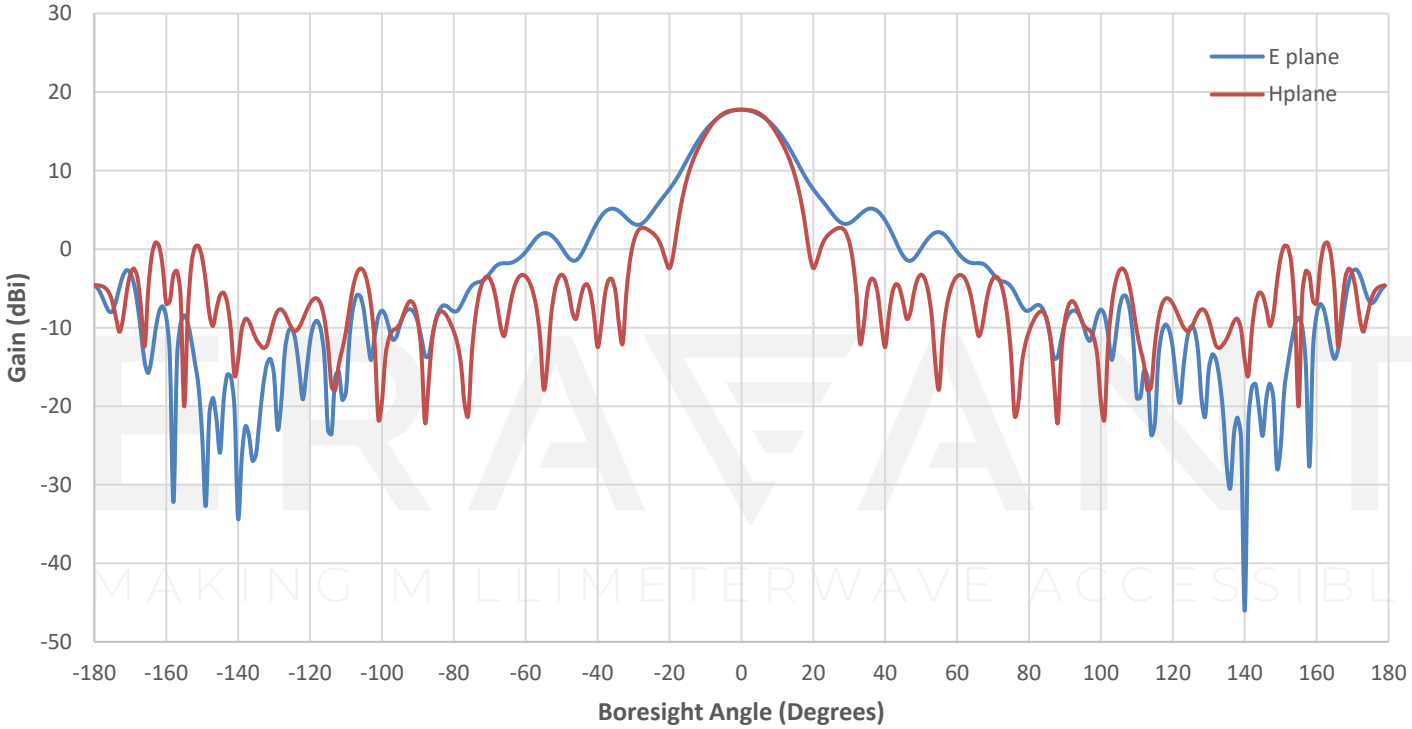
- Antenna Ranges
- Antenna Gain Measurements
- System Setups

SUPPLEMENTAL DETAILS

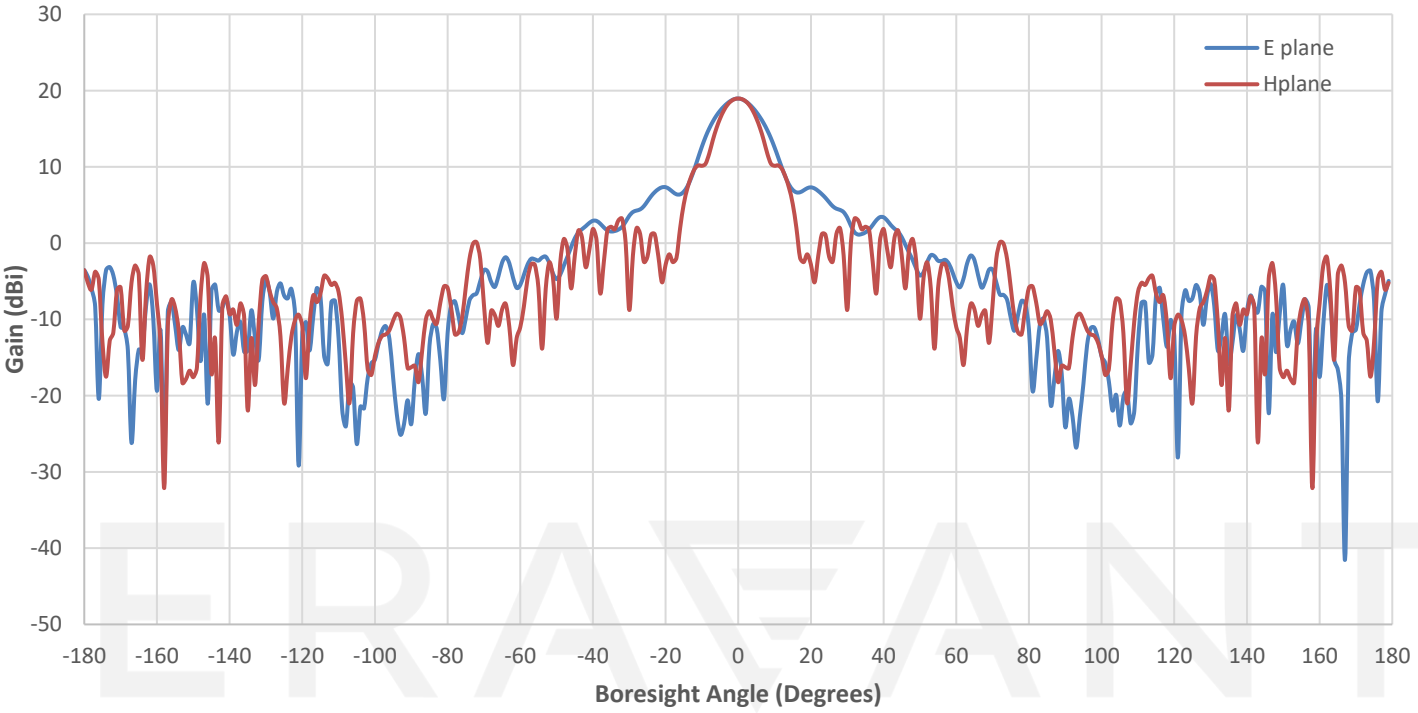
Simulated patterns at 1 GHz



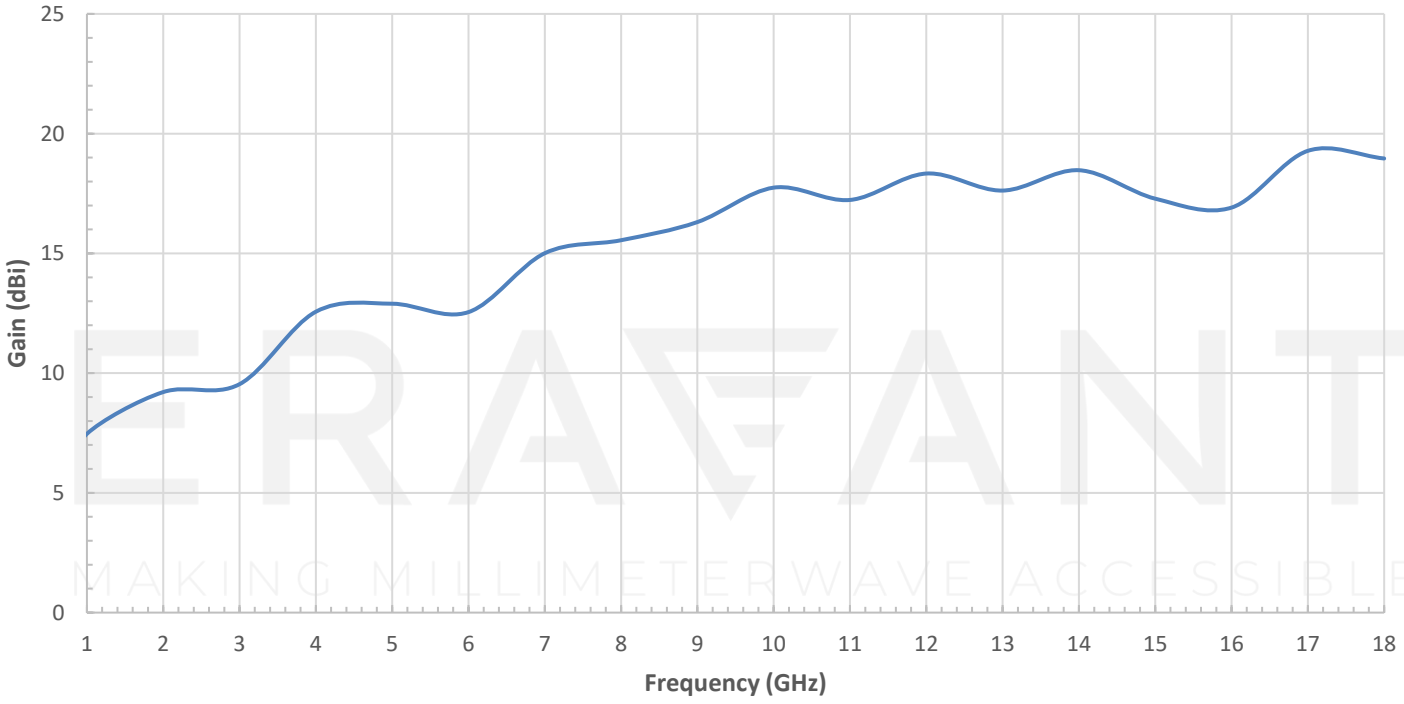
Simulated patterns at 10 GHz



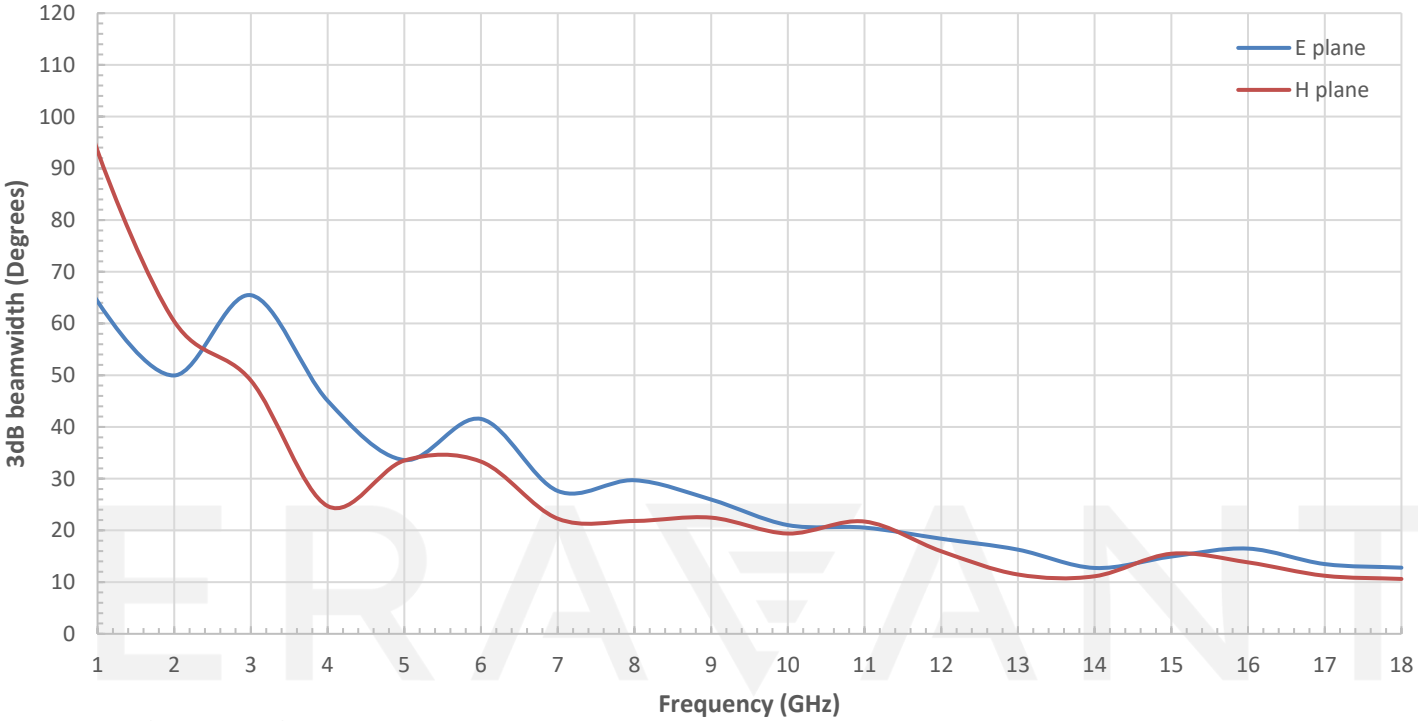
Simulated patterns at 18 GHz



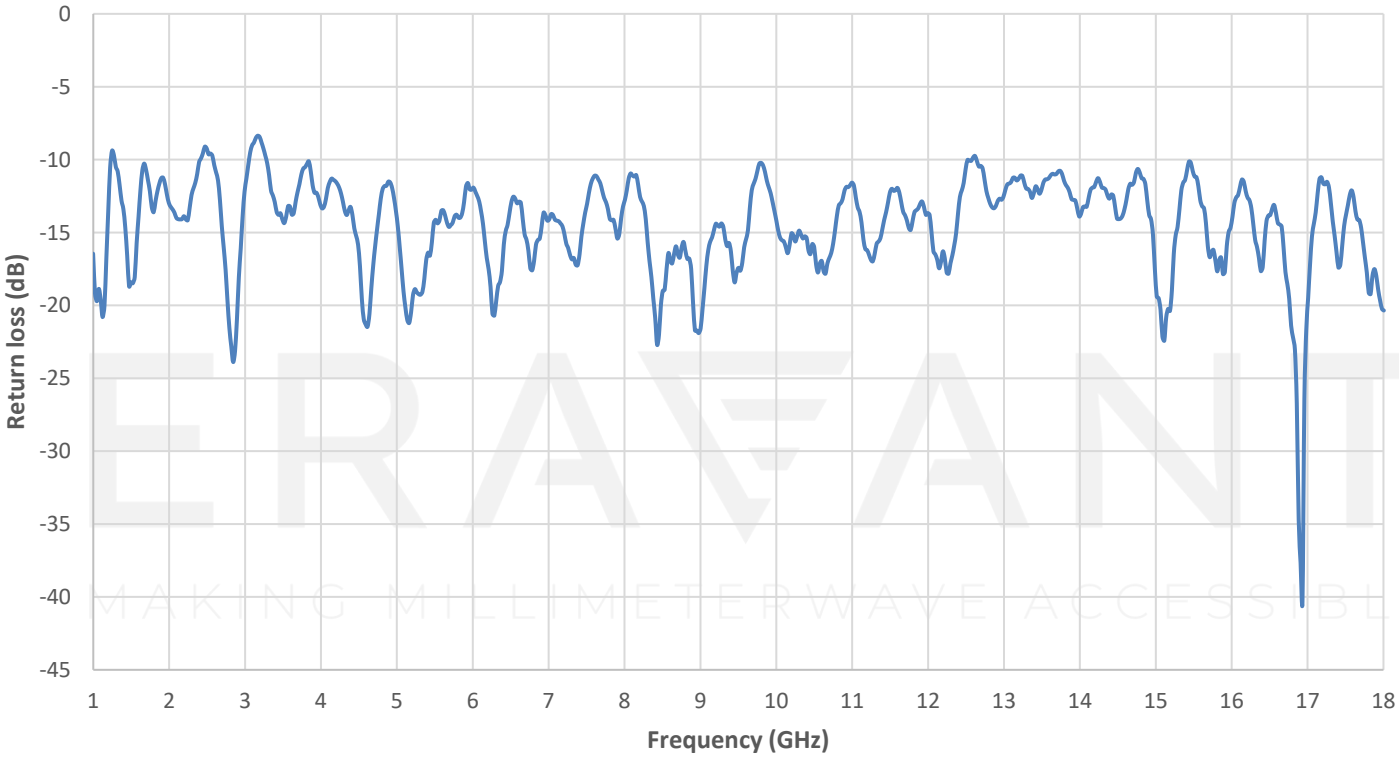
Simulated Gain vs Frequency



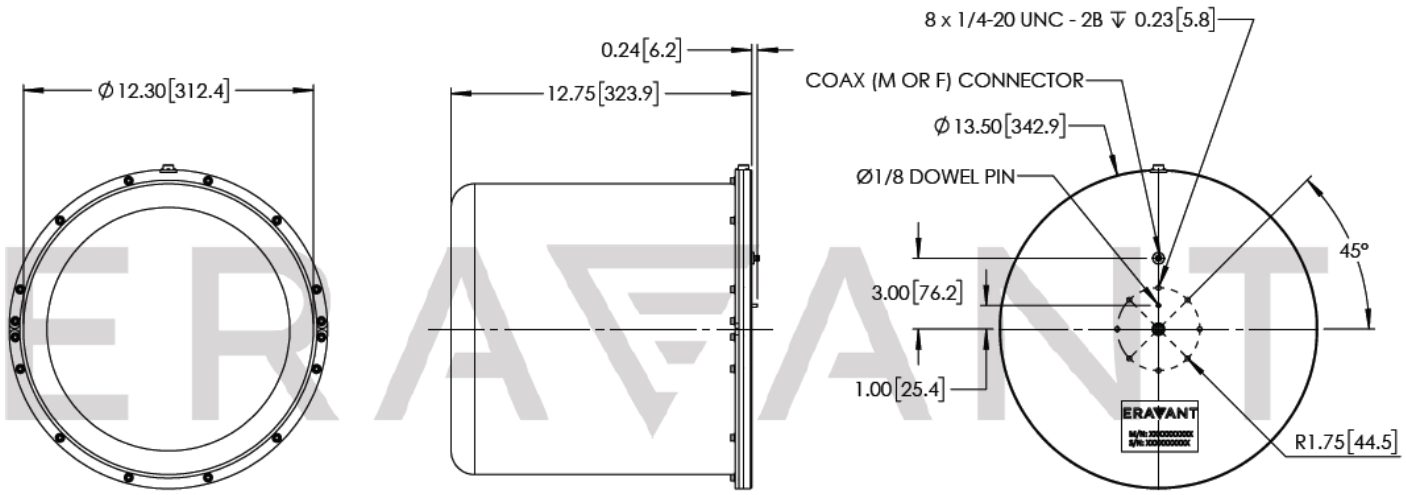
Simulated 3dB Beamwidth vs Frequency



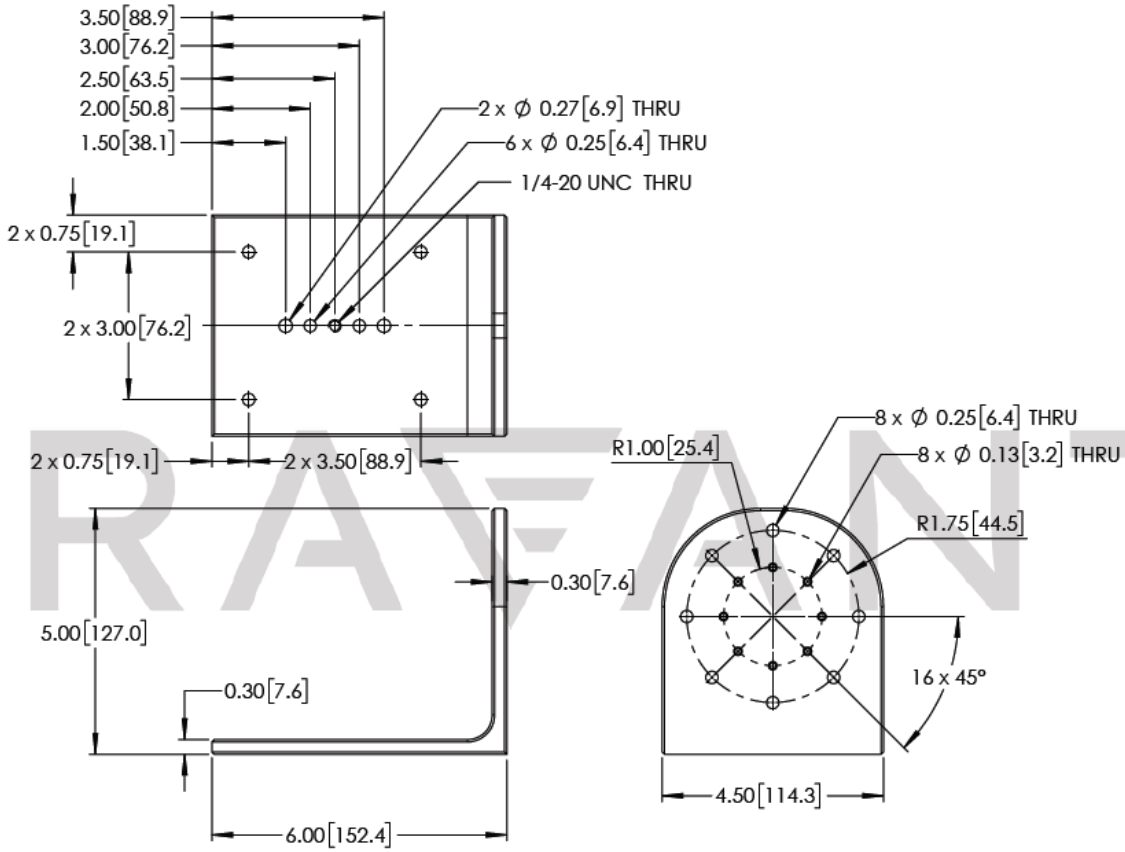
Measured Return loss vs Frequency



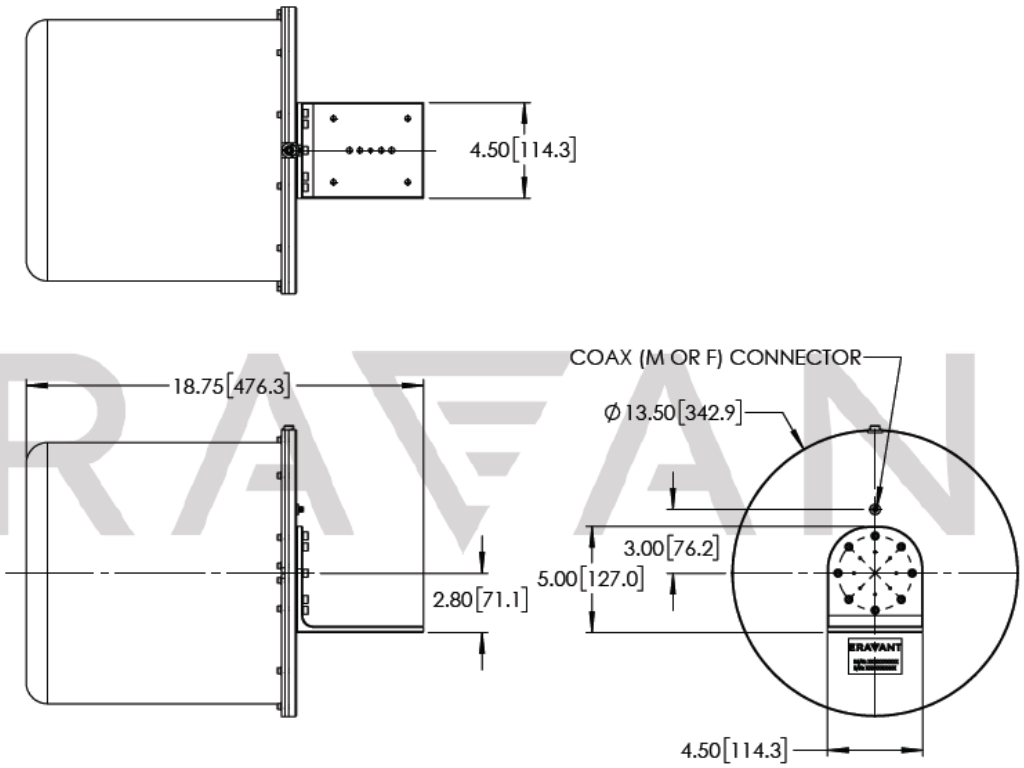
Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Mounting Bracket Outline:



Antenna with Mounting Bracket Attached Outline:



NOTE:

- For simulated data provided, actual measurement may slightly vary.
- 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.