SAV-0634431429-2F-S1

Dual Ridged Horn Antenna, 6 to 44 GHz

SAV-0634431429-2F-S1 is a dual ridged broadband horn antenna that operates from 6 to 44 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 2.4 mm (F) connector.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	6 GHz		44 GHz
Gain		14 dBi	
Polarization		Linear and Circular	
E-Plane 3 dB Beamwidth		29°	
H-Plane 3 dB Beamwidth		29°	
Sidelobe Level, E Plane		-10 dB	
Sidelobe Level, H Plane		-15 dB	
Return Loss		14 dB	
Cross polarization		30 dB	
Power Handling			10 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Antenna Ports	2.4mm (F)
Mounting	Mounting Bracket with ¼-20 Threaded Hole
Material	Aluminum
Finish	Chem Film (Antenna), Black Anodized (Mounting Bracket)
Weight	1.5 oz
Outline	AV-C14-DR-2

ECCN

EAR99

FEATURES

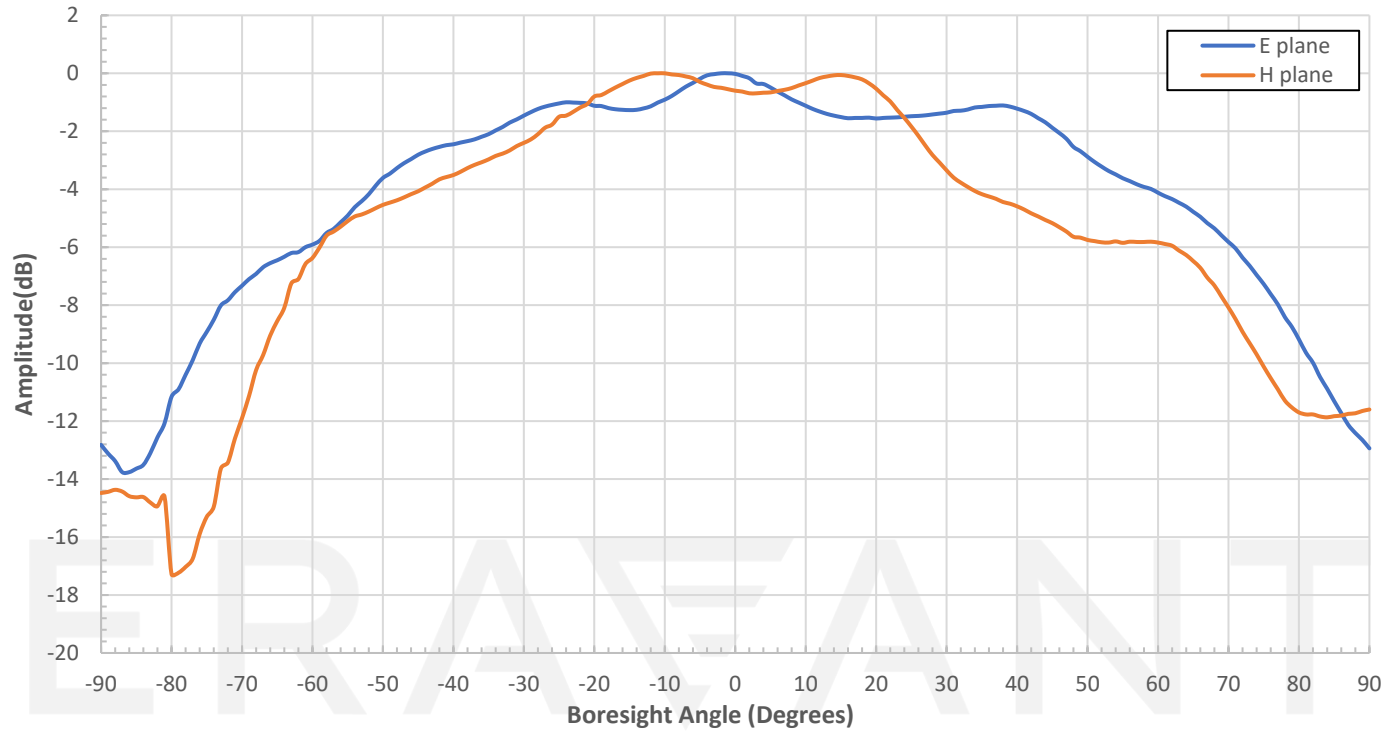
- Coaxial Connector for RF Input
- Broadband Coverage
- Circular and Linear Polarization
- Good Impedance Match

APPLICATIONS

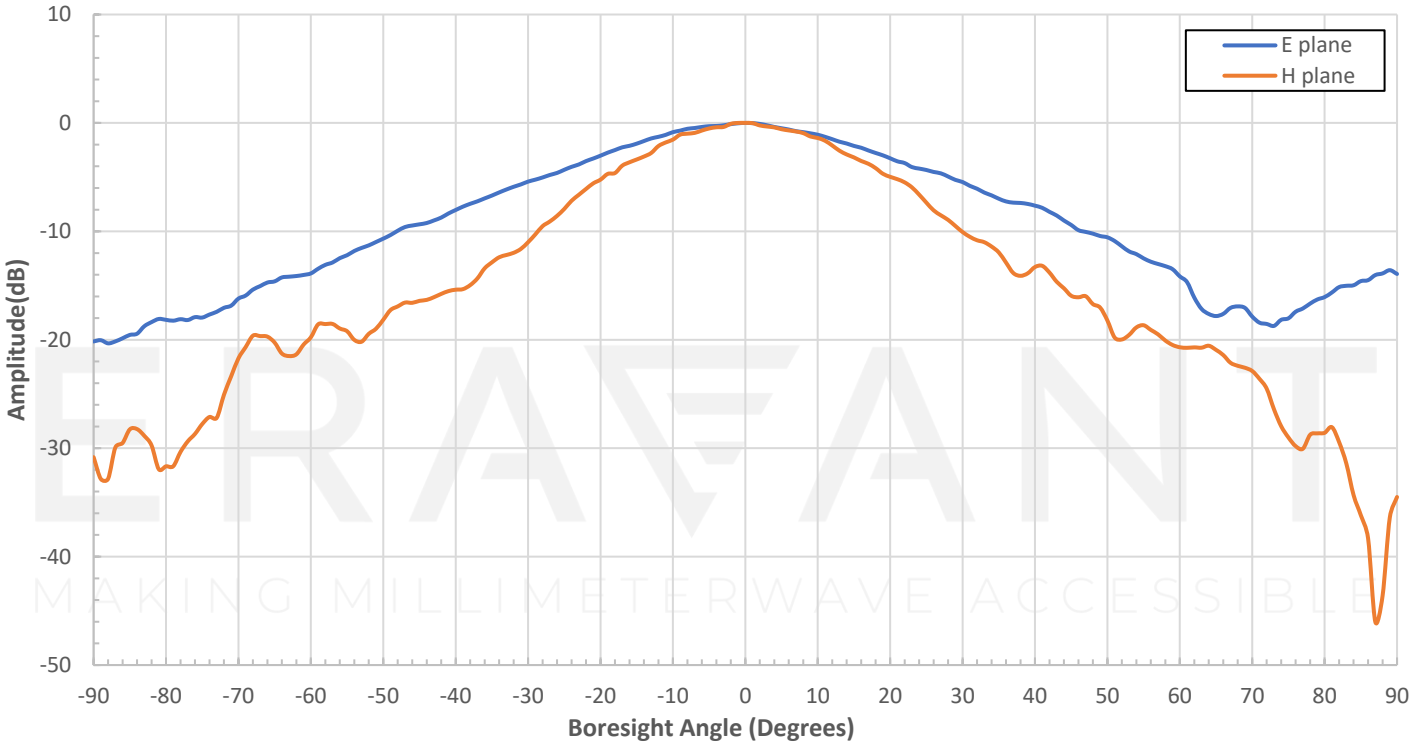
- Antenna Ranges
- Antenna Gain Measurements
- System Setups

SUPPLEMENTAL DETAILS

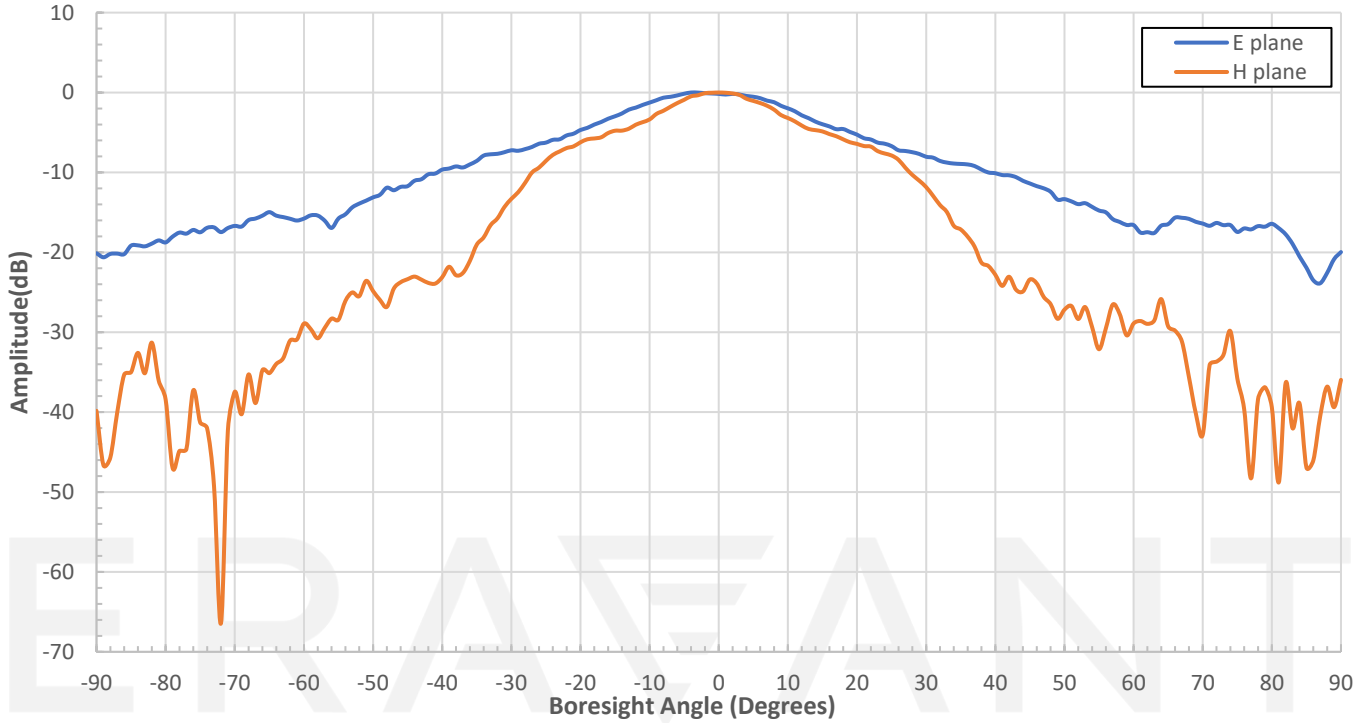
Measured Patterns at 6 GHz



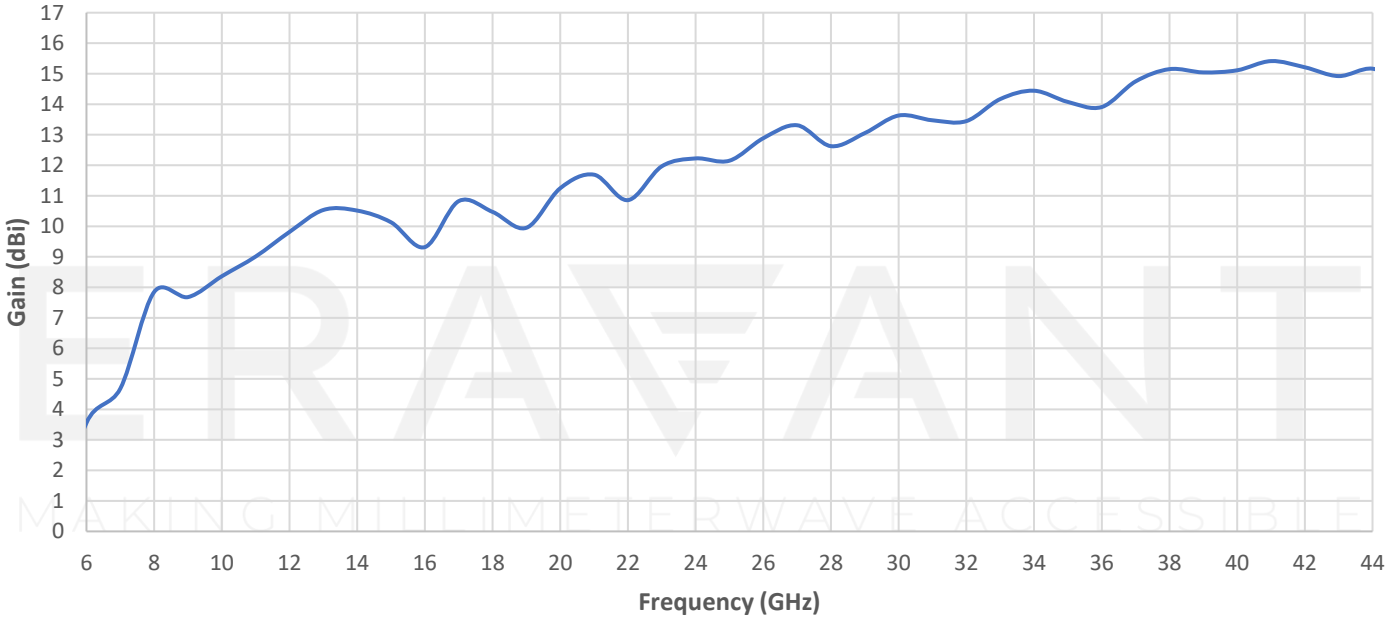
Measured Patterns at 25 GHz



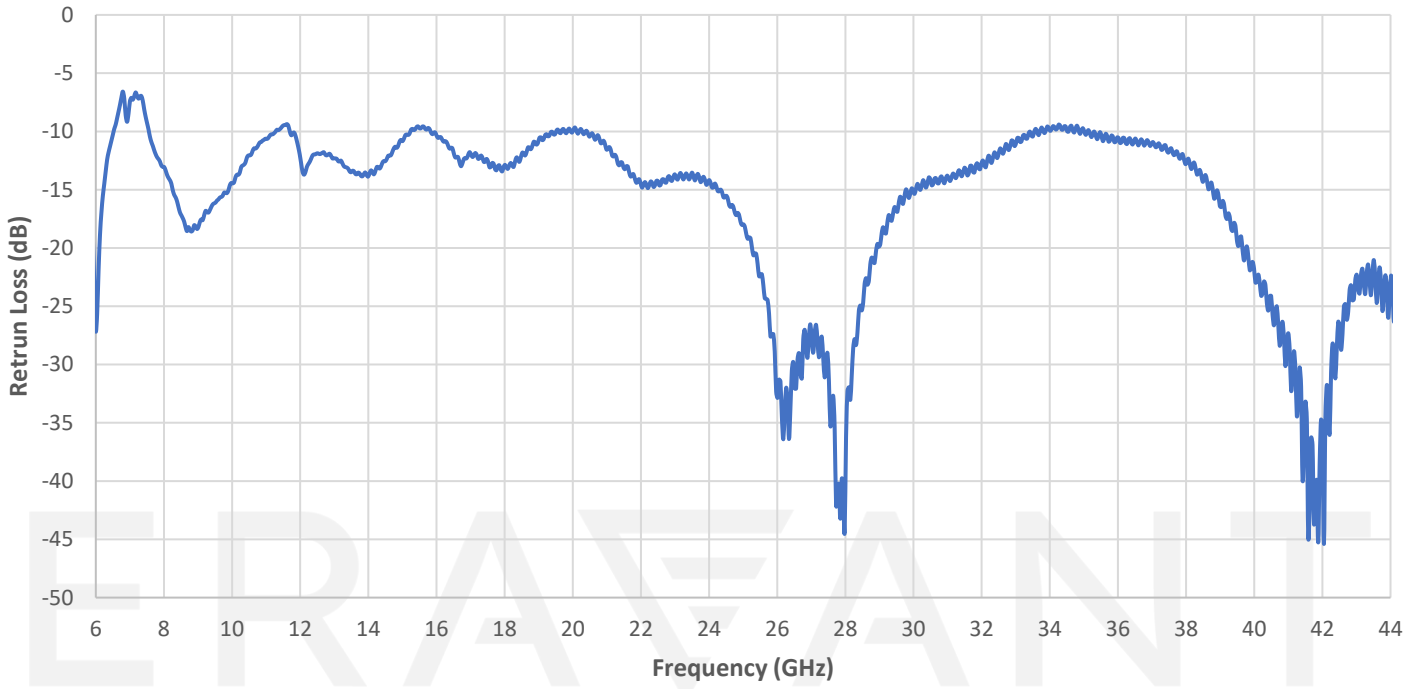
Measured Patterns at 44 GHz



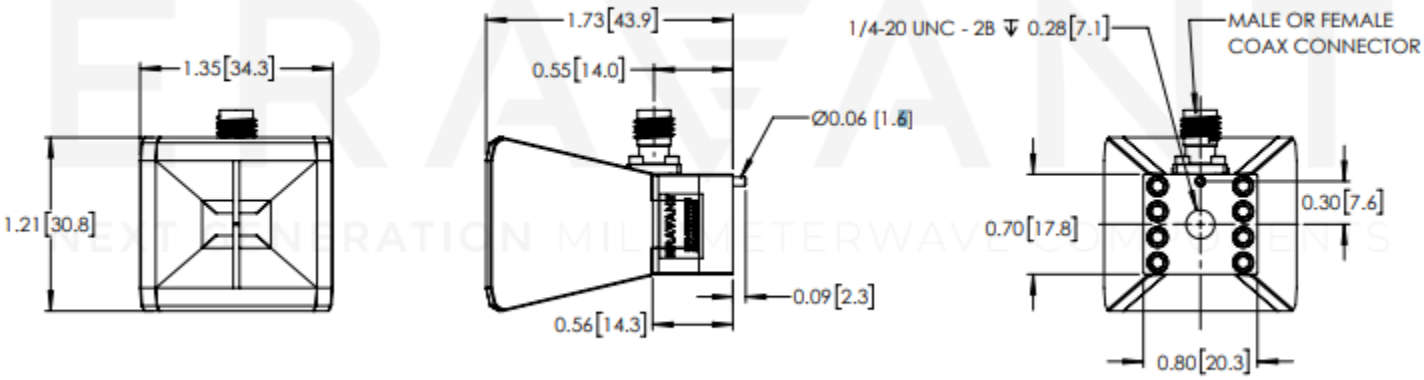
Measured Gain vs Frequency



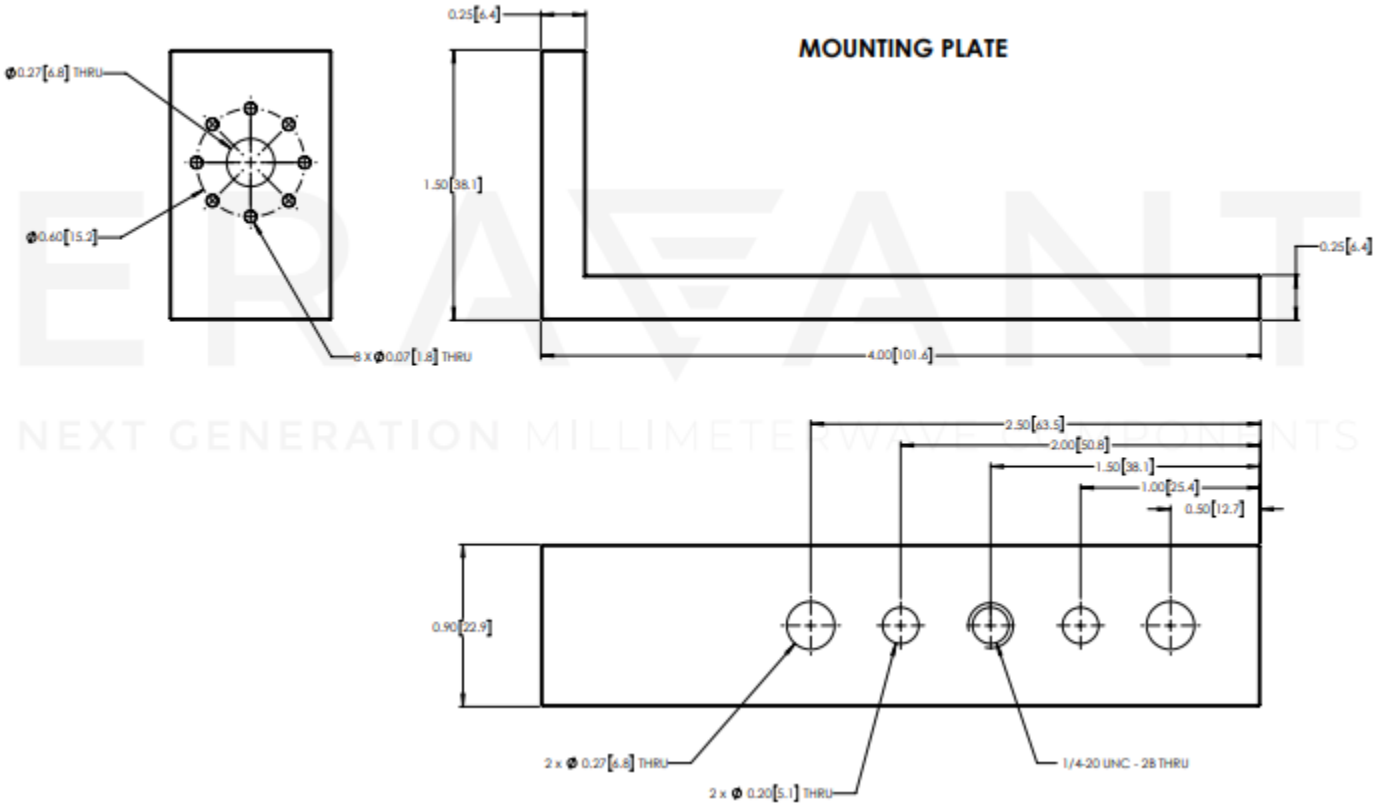
Measured Return Loss vs Frequency



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



Mounting Bracket Outline:



NOTE:

- Test data provided is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- Eravant reserves the right to change the information presented without notice.
- Picture shown does not represent the actual unit. The outline shows the most accurate structure of the final model.

CAUTION:

- Any foreign objects in the antenna will cause performance degradation and may damage or destroy the unit.