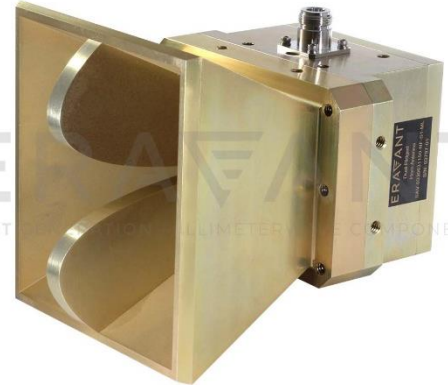


SAV-0330631050-NF-S1

Dual Ridged Horn Antenna, 3 to 6 GHz

SAV-0330631050-NF-S1 is a dual ridged horn antenna that operates from 3 GHz to 6 GHz. The antenna offers 10 dBi nominal gain and a typical 3 dB beamwidth of 50 degrees on the E-plane and the H-plane. The antenna supports linear polarized waveforms. The antenna features multiple ¼-20 threaded holes on the sides for flexible mounting capability. The RF port is equipped with an female N-type connector.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	3 GHz		6 GHz
Gain		10 dBi	
3 dB Beamwidth, E-Plane		50°	
3 dB Beamwidth, H-Plane		50°	
Sidelobes, E-Plane		-10 dB	
Sidelobes, H-Plane		-15 dB	
Return Loss		10 dB	
Polarization		Linear	
Power Handling			200 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Antenna Port	N(F) Connector
Material	Aluminum
Finish	Chem Film
Weight	5.9 lbs.
Outline	AV-C10-DR

ECCN

EAR99

FEATURES

- Coaxial Connector for RF Input
- Broad Bandwidth
- Linear Polarization
- Good Impedance Match

APPLICATIONS

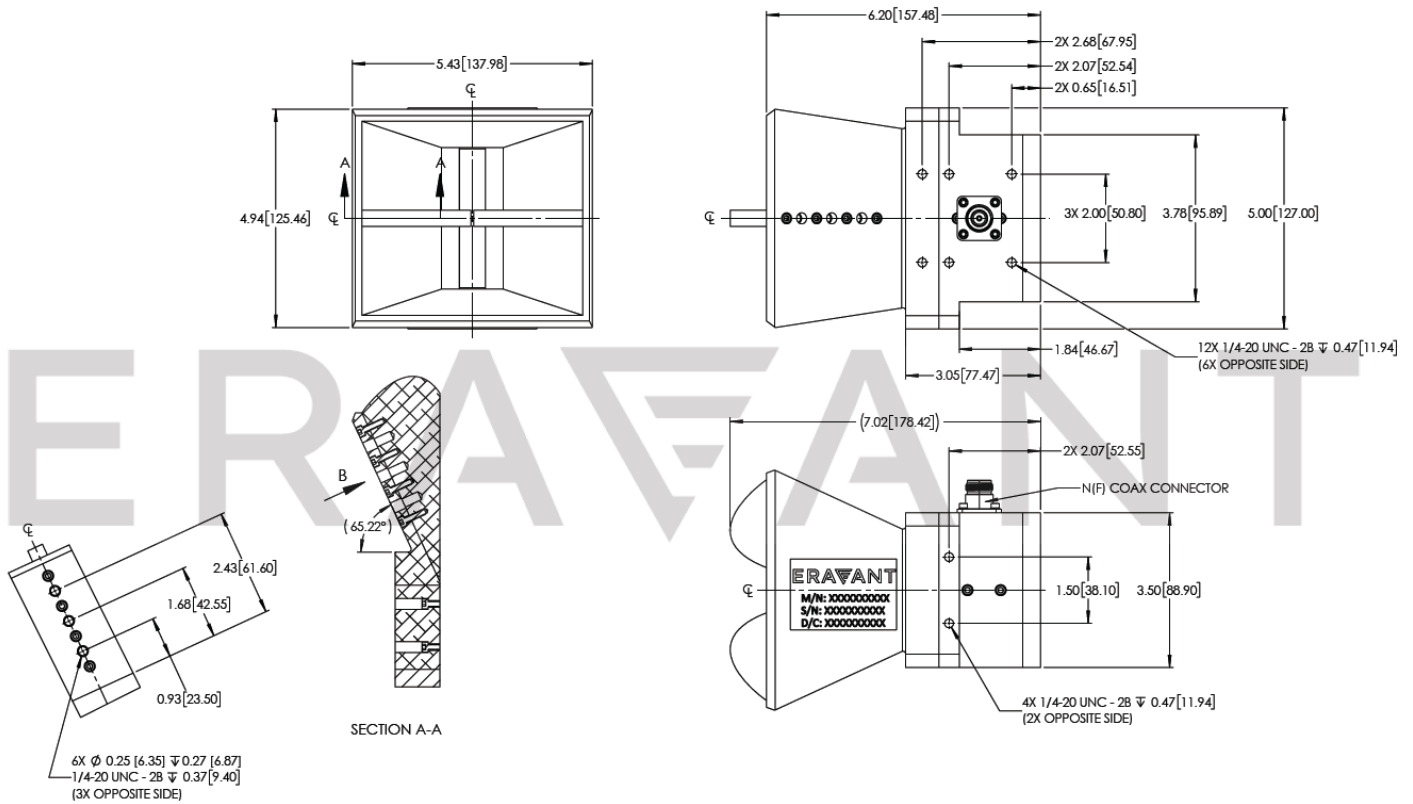
- Antenna Range
- Antenna Gain Measurement
- System Setup

SUPPLEMENTAL DETAILS

SAV-0330631050-NF-S1

Mechanical Outline:

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



NOTE:

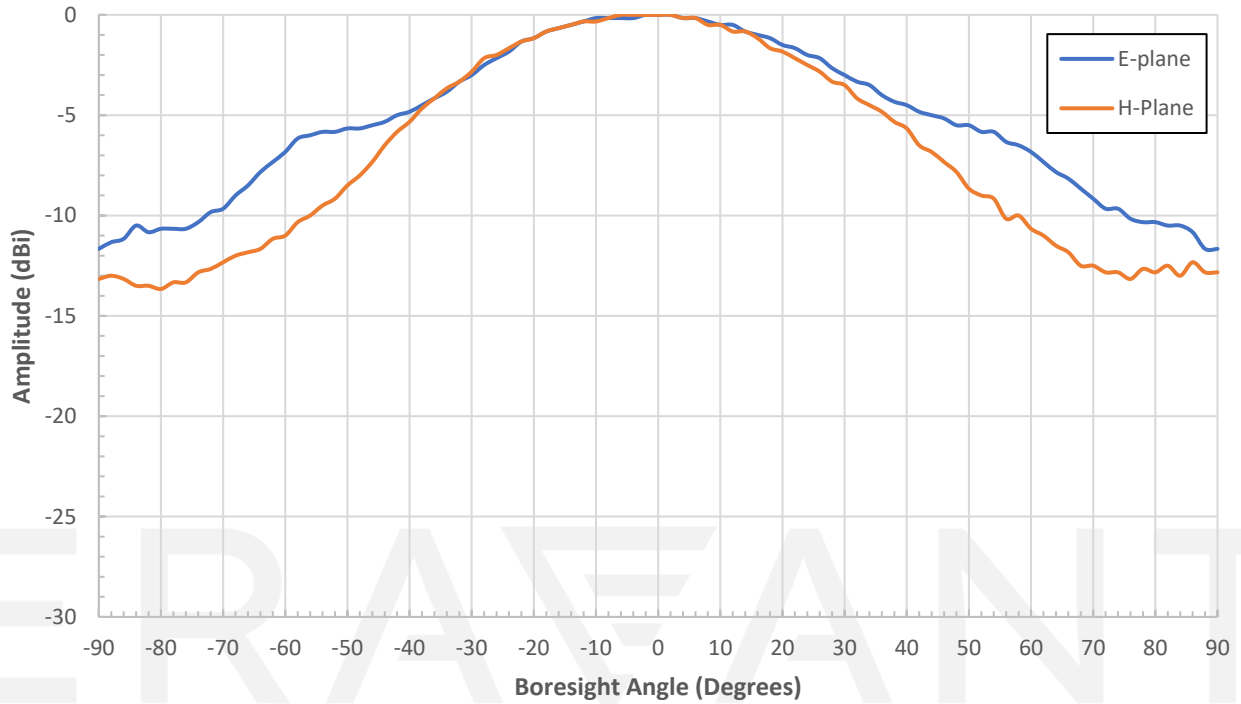
- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

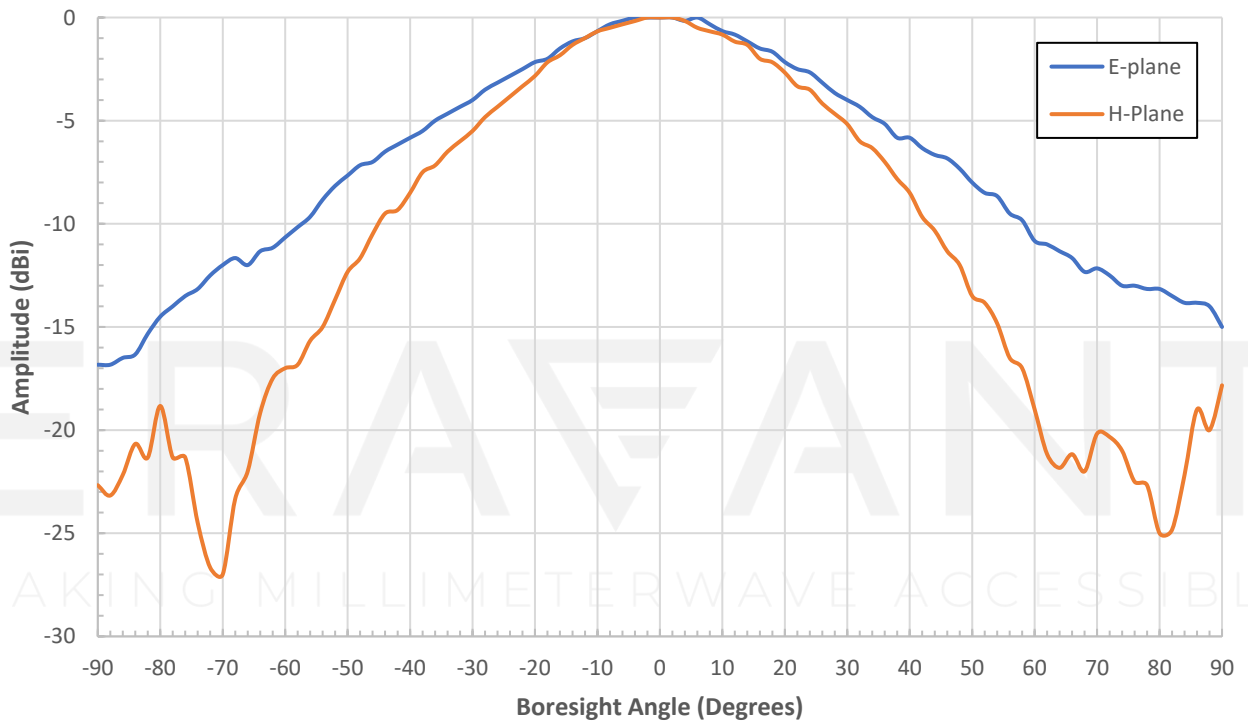
- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.
- Any foreign objects in the antenna will cause performance degradation and possible device damage.
- For 1 mm connectors proper torque should be applied: 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm). Torque wrench model [SCH-06004-S1](#) is highly recommended.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model [SCH-08008-S1](#) is highly recommended

MAKING MILLIMETERWAVE ACCESSIBLE

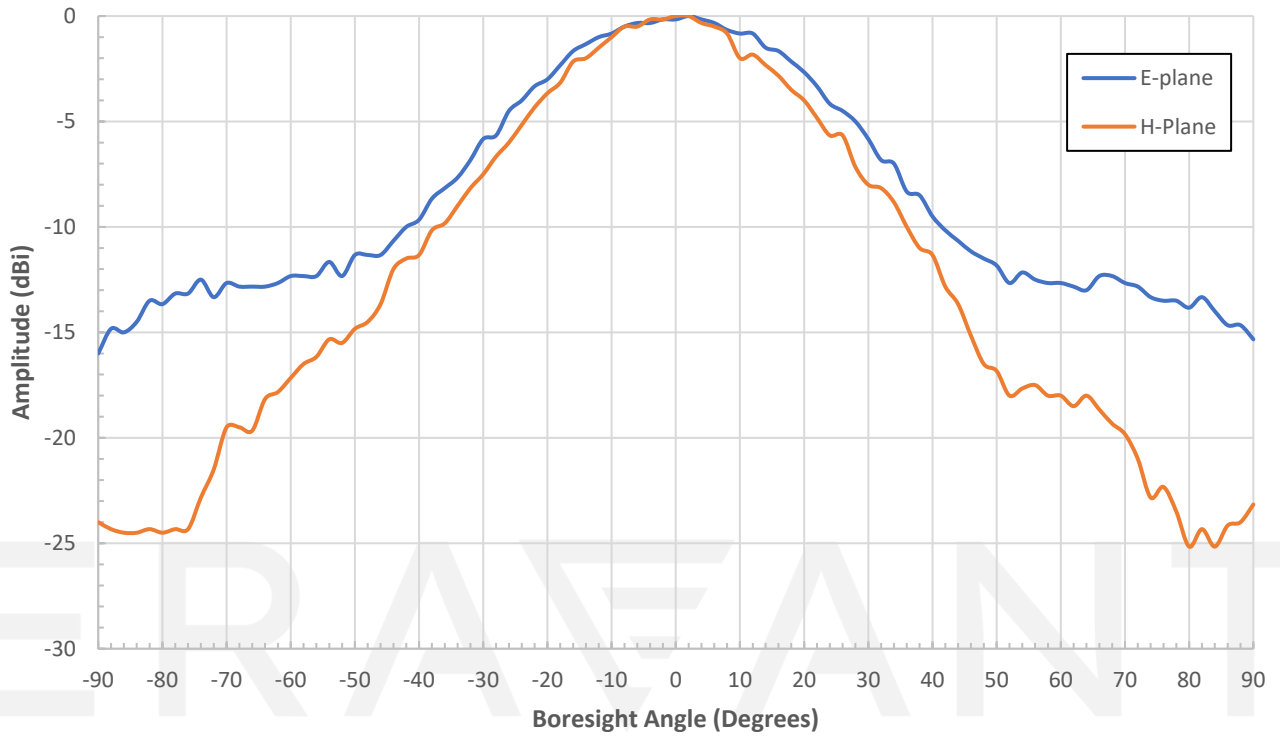
Typical Measured Antenna Patterns @ 3 GHz



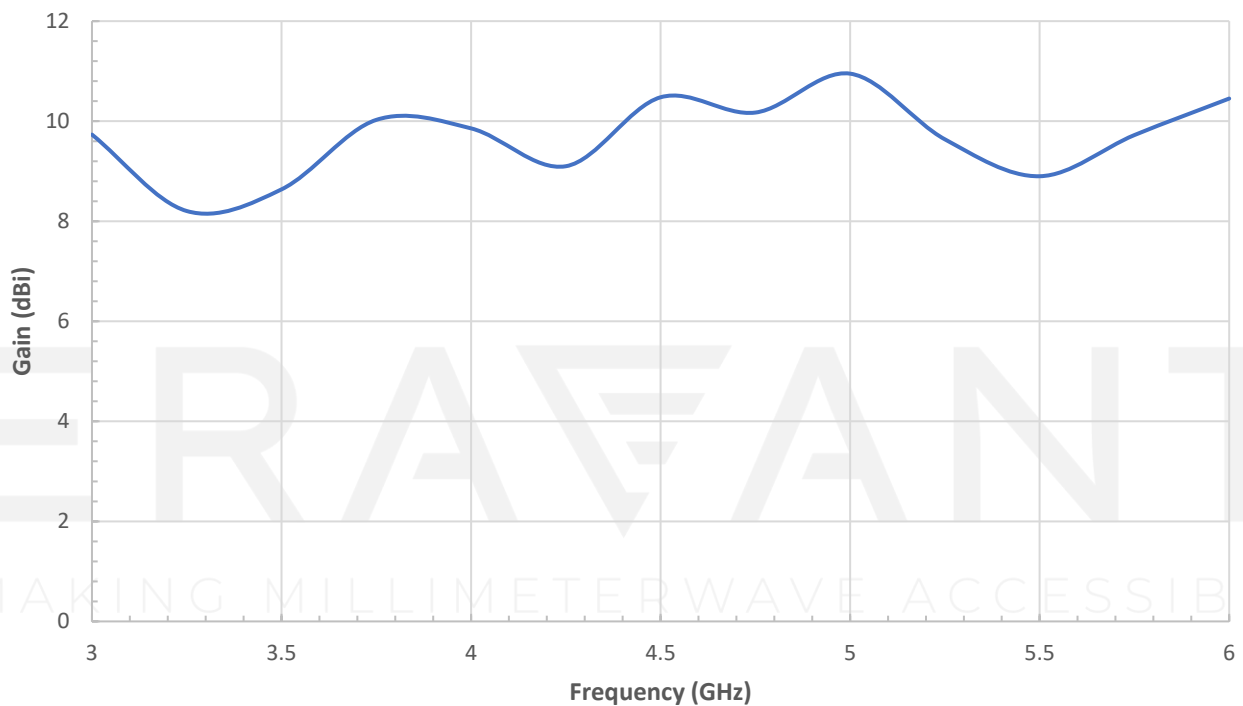
Typical Measured Antenna Patterns @ 4.5 GHz



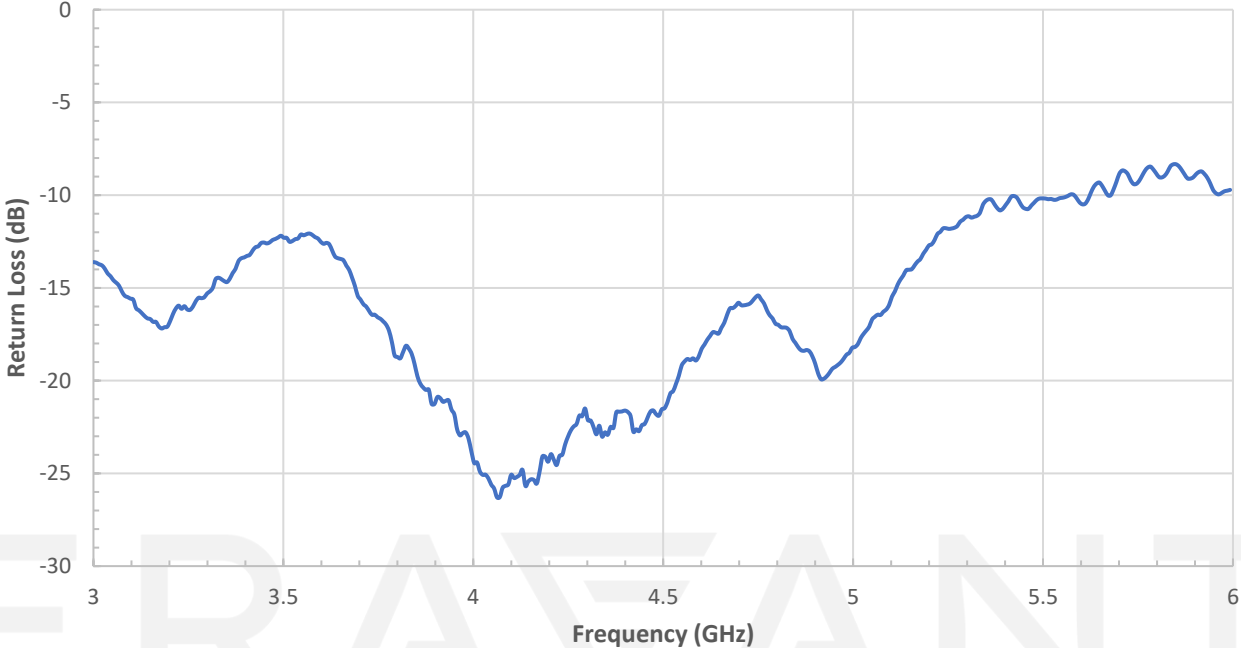
Typical Measured Antenna Patterns @ 6 GHz



Typical Measured Gain vs Frequency



Typical Measured Return Loss vs Frequency



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