

SAV-0632531431-SF-U6-QR-RD

Quad-Ridged, Dual Polarized Horn Antenna, 6 to 24.5 GHz, Weather Resistant

SAV-0632531431-SF-U6-QR-RD is a weather resistant, quad-ridged horn antenna that operates from 6 to 24.5 GHz. The antenna offers a typical gain of 14 dBi and a nominal 3 dB beamwidth of 26° for the E-plane and 36° for the H-plane, respectively. The antenna supports both circular and linear polarized waveforms. The antenna features eight M3 threaded holes and one M6 threaded hole for mounting. The antenna ports are two female SMA connectors.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	6.0 GHz		24.5 GHz
Gain		14 dBi	
Polarization	Circular and Linear		
E-Plane 3 dB Beamwidth		26°	
H-Plane 3 dB Beamwidth		36°	
E-Plane Sidelobe Levels		-17 dB	
H-Plane Sidelobe Levels		-20 dB	
Port Isolation		25 dB	
Cross Polarization		25 dB	
Port Return Loss		8 dB	
Power Handling			25 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Antenna Ports	SMA (F)
Body Material	Aluminum
Radome material	Epoxy Fiberglass
Finish	Chem Film and Black Paint
Weight	3.2 Oz
Outline	AV-S12-QR-RD-RM1

ECCN

EAR99

FEATURES

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

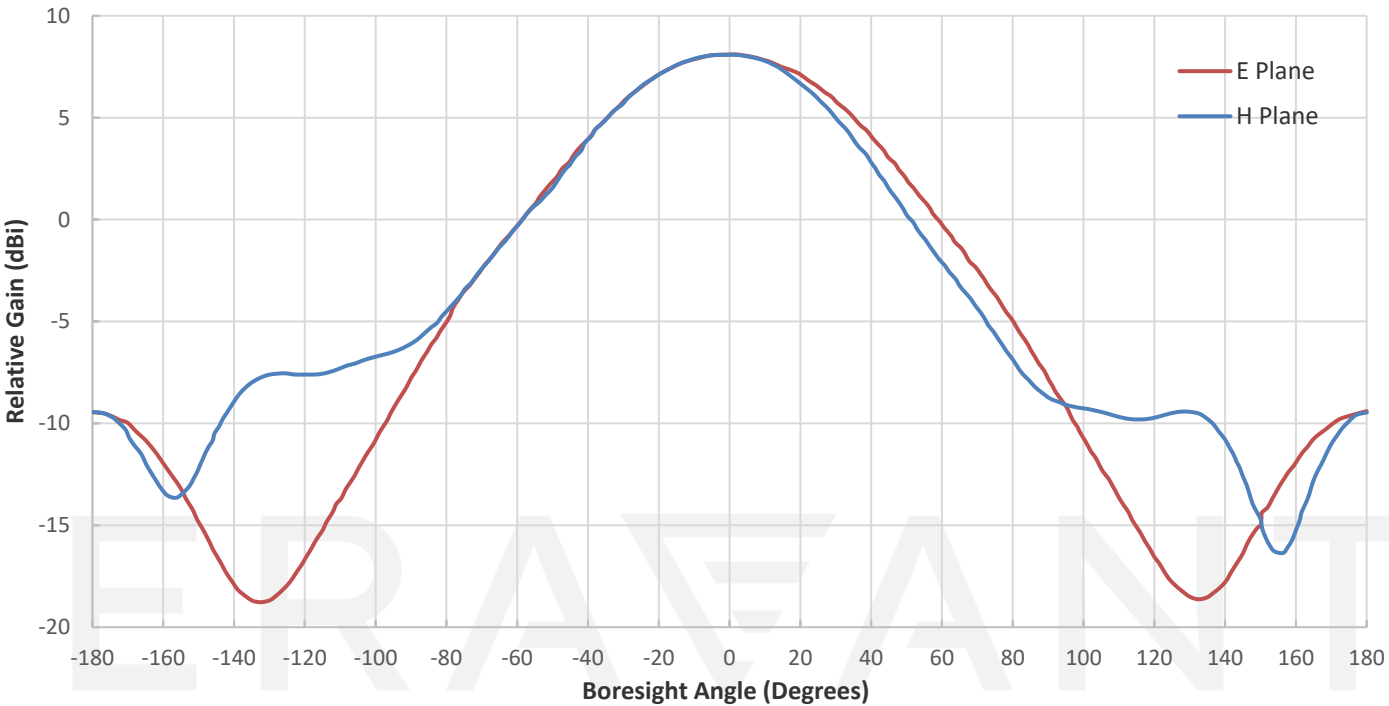
APPLICATIONS

- Antenna Ranges
- Antenna Gain Measurements
- System Setups

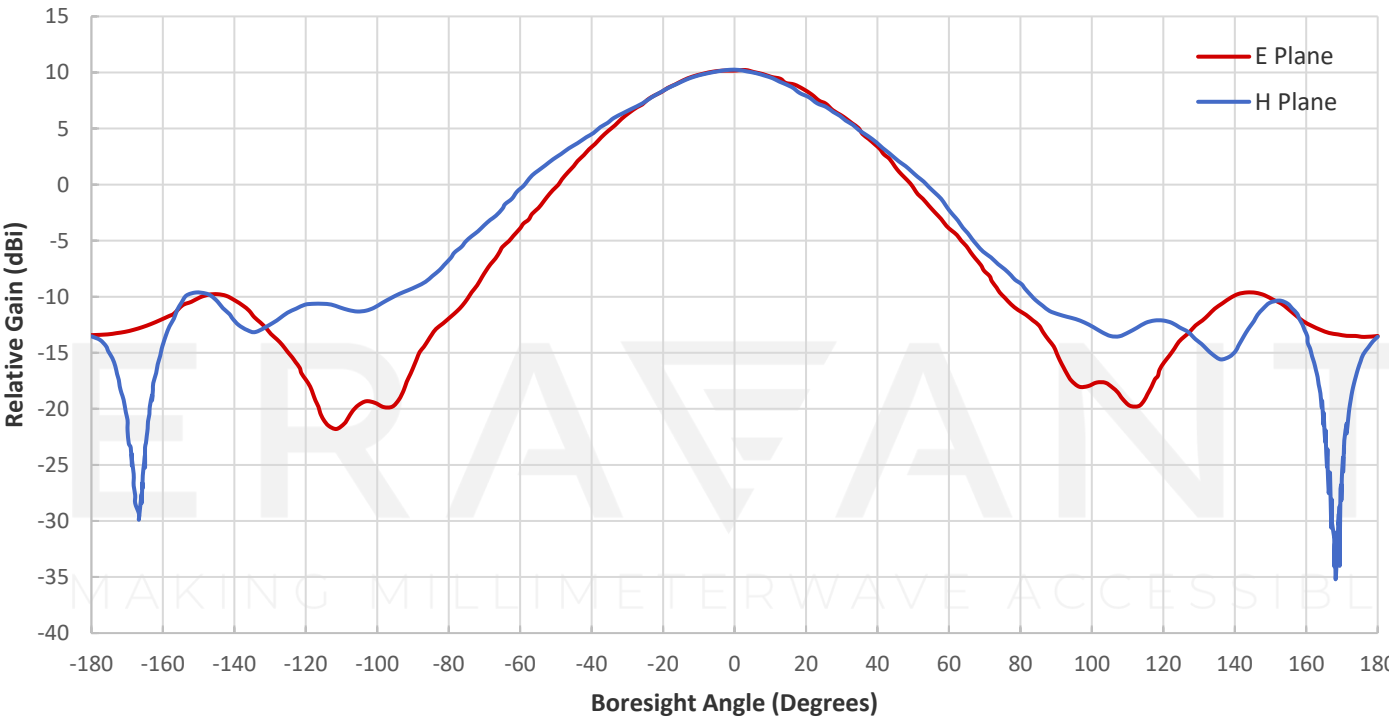
SUPPLEMENTAL DETAILS



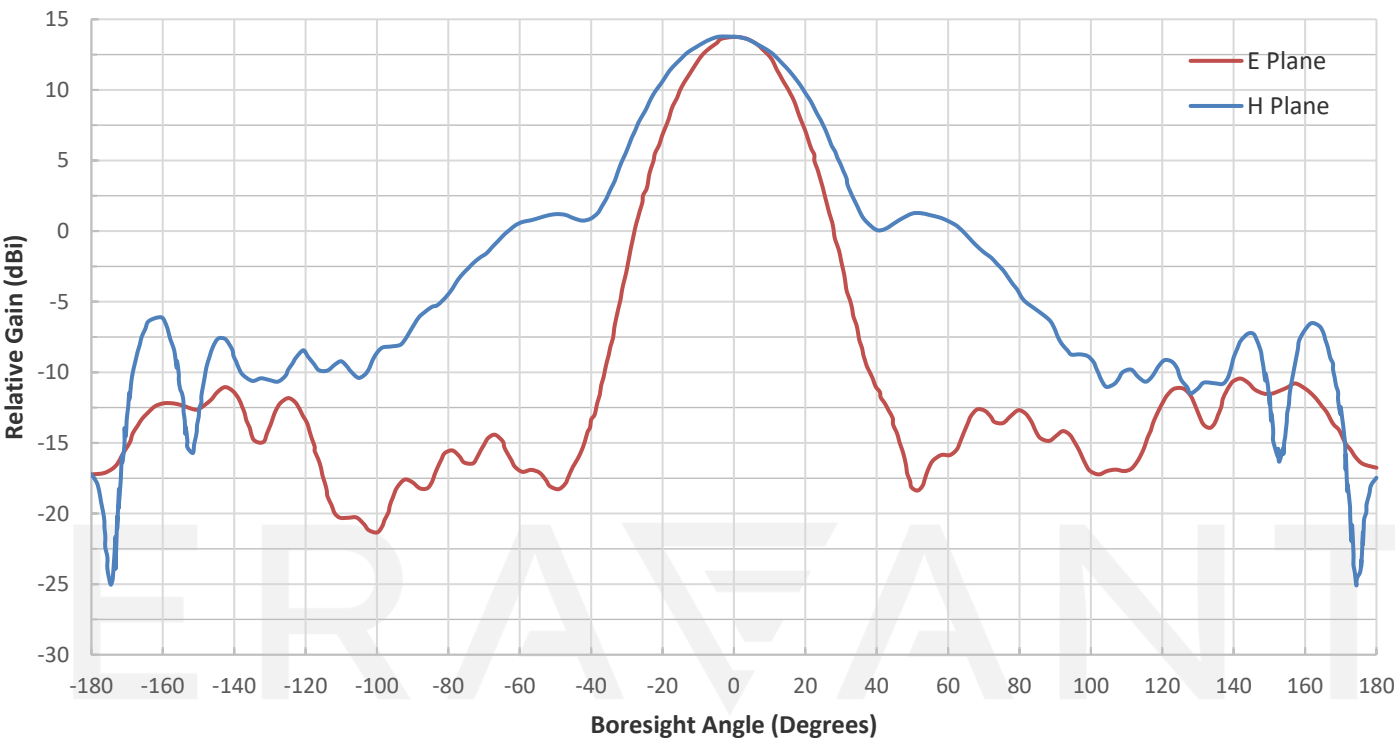
Simulated Antenna Patterns @ 6 GHz



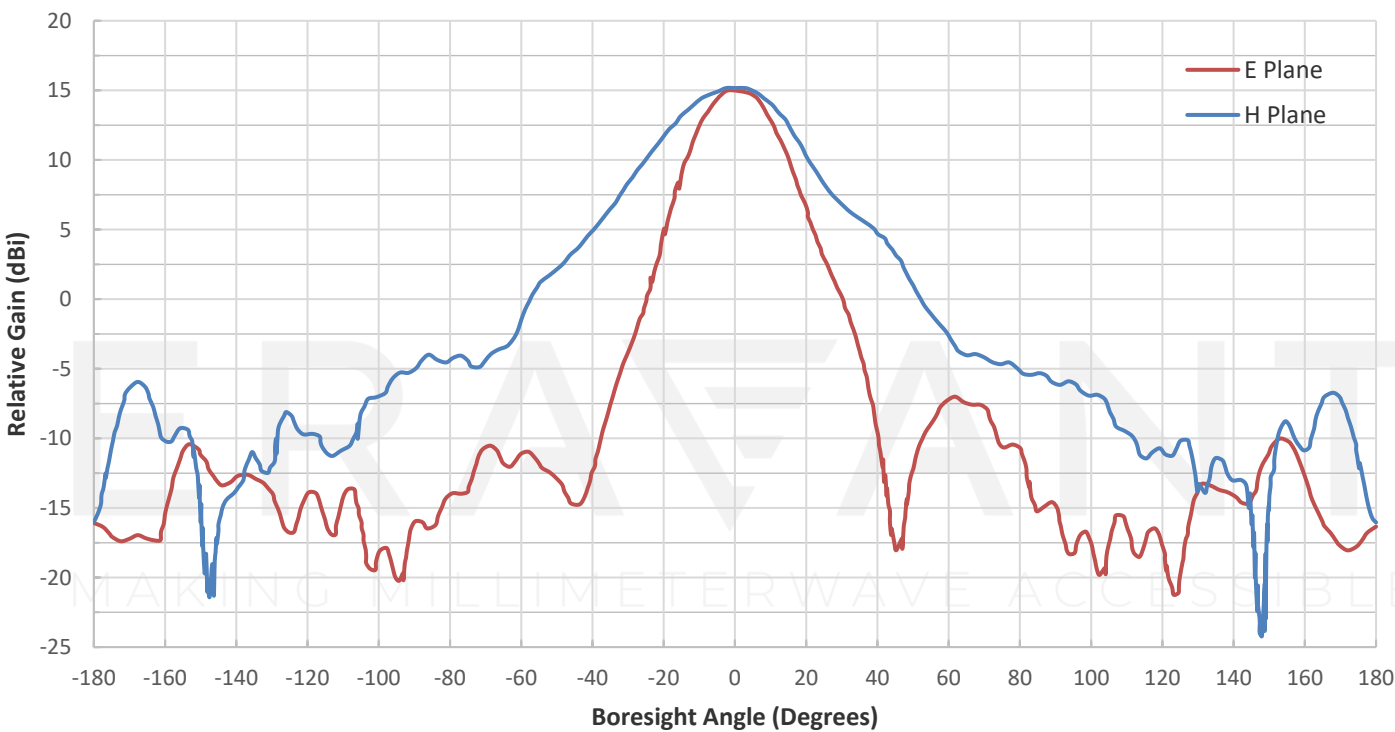
Simulated Antenna Patterns @ 12 GHz



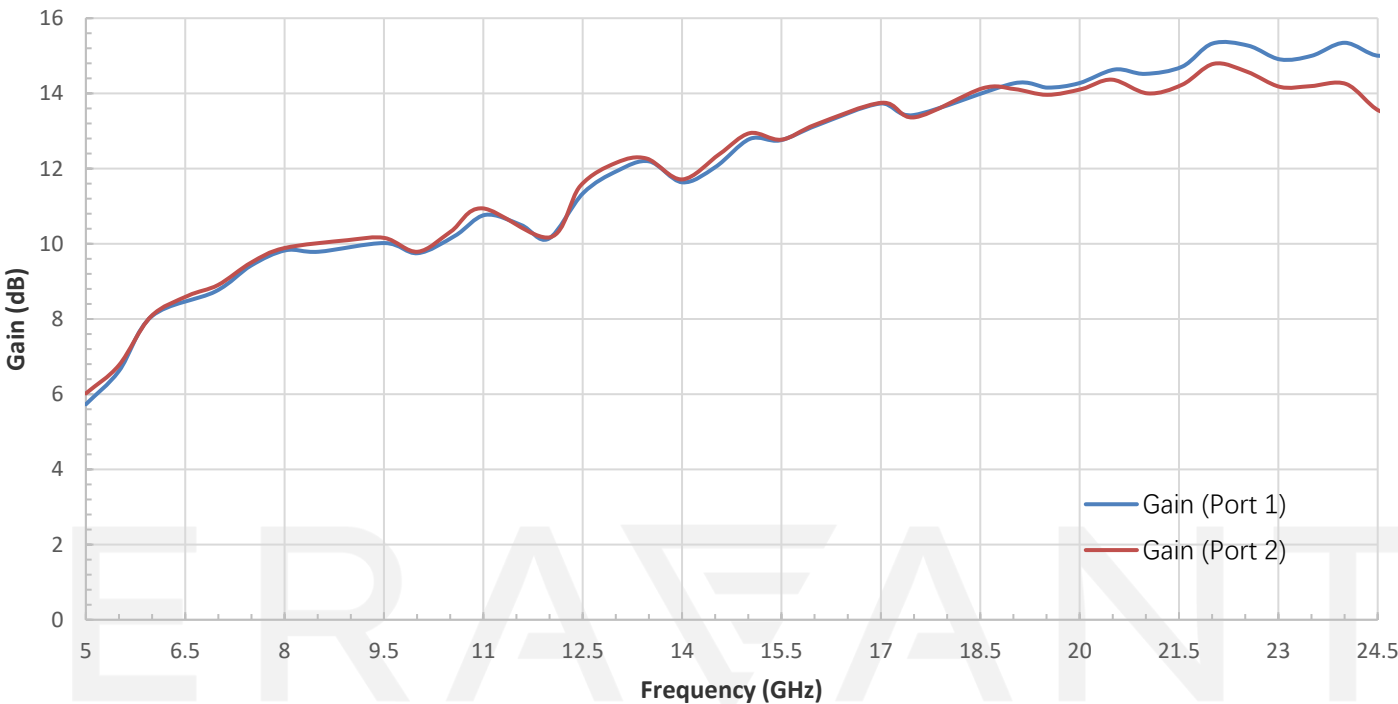
Simulated Antenna Patterns @ 18 GHz



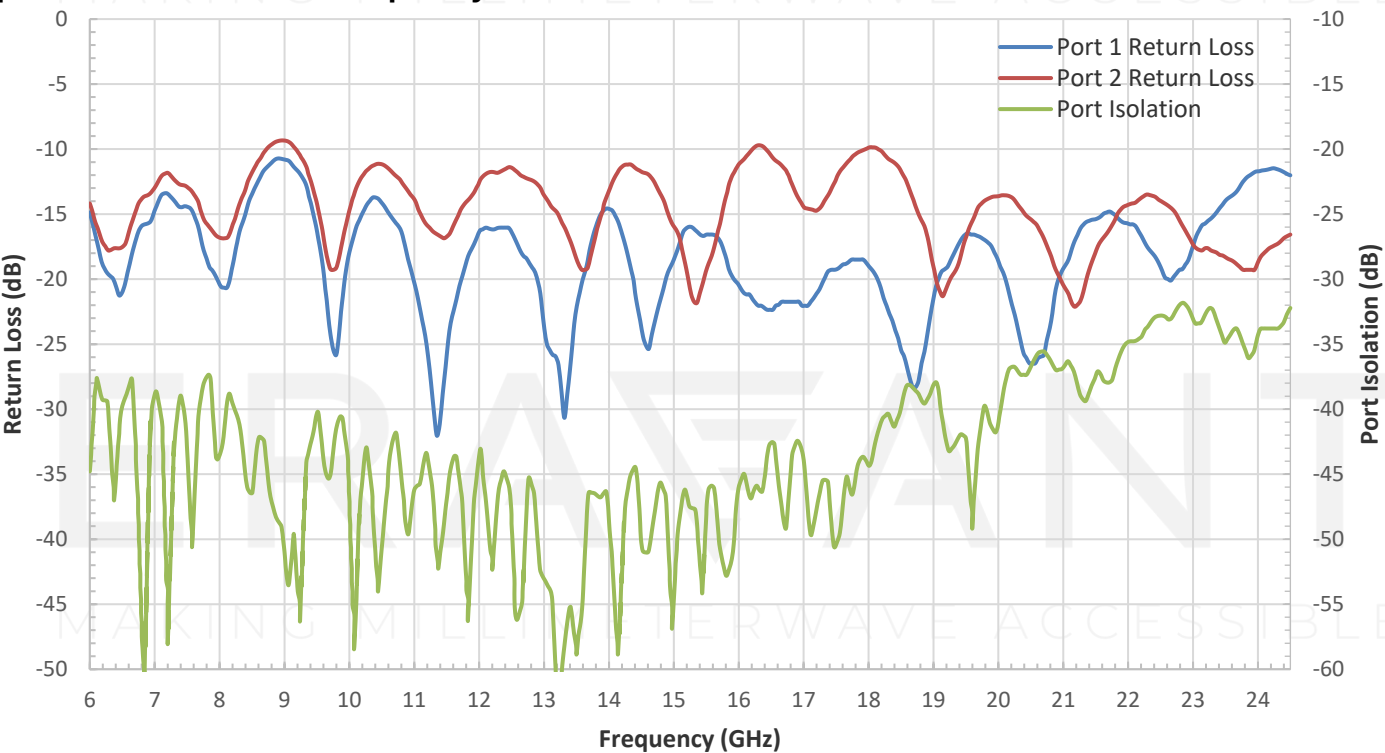
Simulated Antenna Patterns @ 24.5 GHz



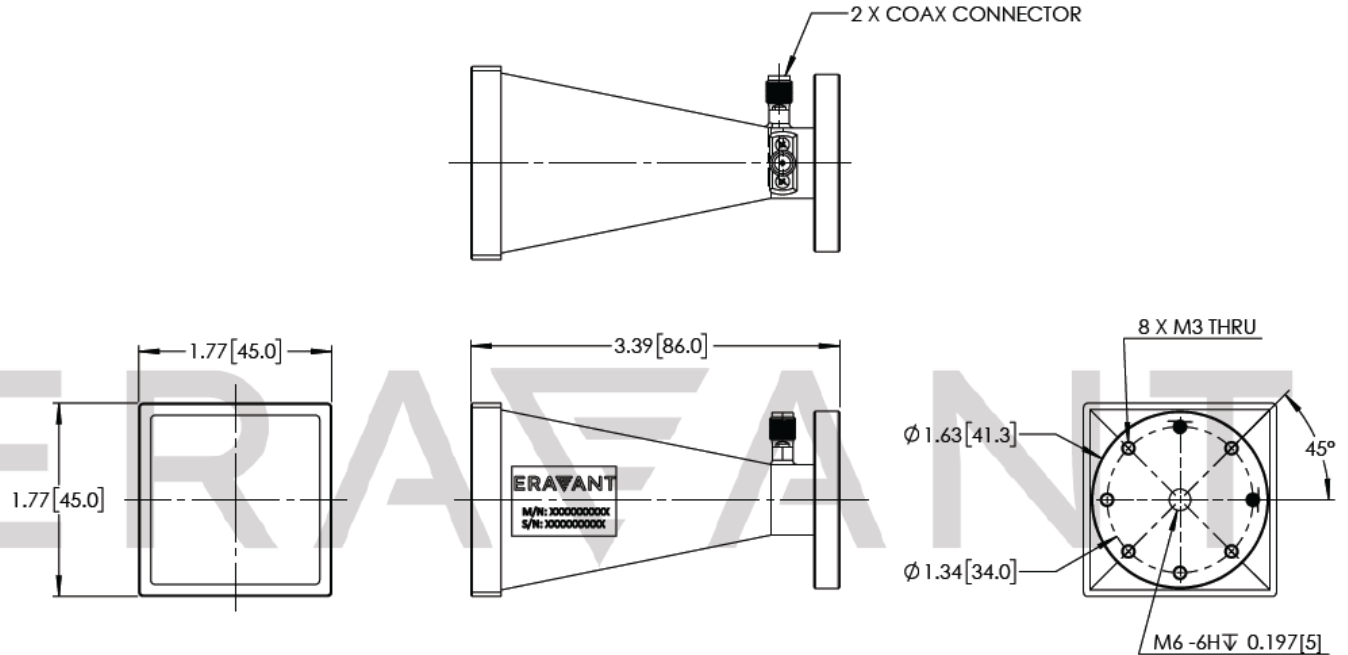
Simulated Gain vs. Frequency



Typical Return Loss vs. Frequency



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



MAKING MILLIMETERWAVE ACCESSIBLE

NOTE:

- 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:

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

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