

SAV-0231831725-SF-S1-QR

Quad-Ridged, Dual Polarized Horn Antenna, 2 to 18 GHz

SAV-0231831725-SF-S1-QR is a quad-ridged horn antenna that operates from 2 to 18 GHz. The antenna offers a typical gain of 17 dBi and a nominal 3 dB beamwidth of 25° for the E-plane and H-plane. The antenna is also equipped with a dust cover for protection. The antenna ports are two female SMA connectors.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	2 GHz		18 GHz
Gain		17 dBi	
Polarization	Linear and Circular		
E-Plane, 3 dB Beamwidth		25°	
H-Plane, 3 dB Beamwidth		25°	
Port Isolation		20 dB	
Port Return Loss		7 dB	
Power Handling			150 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Antenna Ports	2x SMA (F) Coax Connectors
Body Material	Aluminum
Lens Material	HDPE
Weight	2.132 lbs.
Outline	AV-C17-QR-2

ECCN

EAR99

FEATURES

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

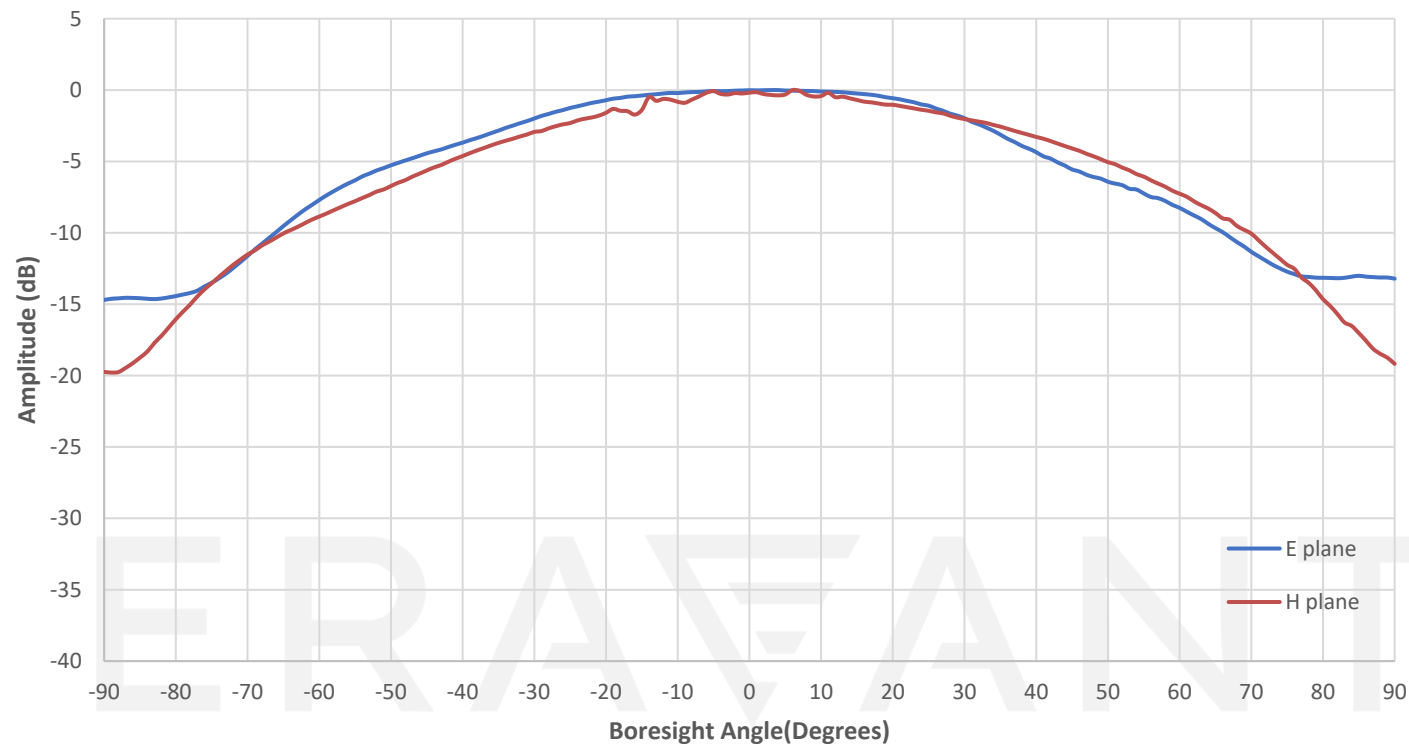
APPLICATIONS

- Antenna Ranges
- Antenna Gain Measurements
- System Setups

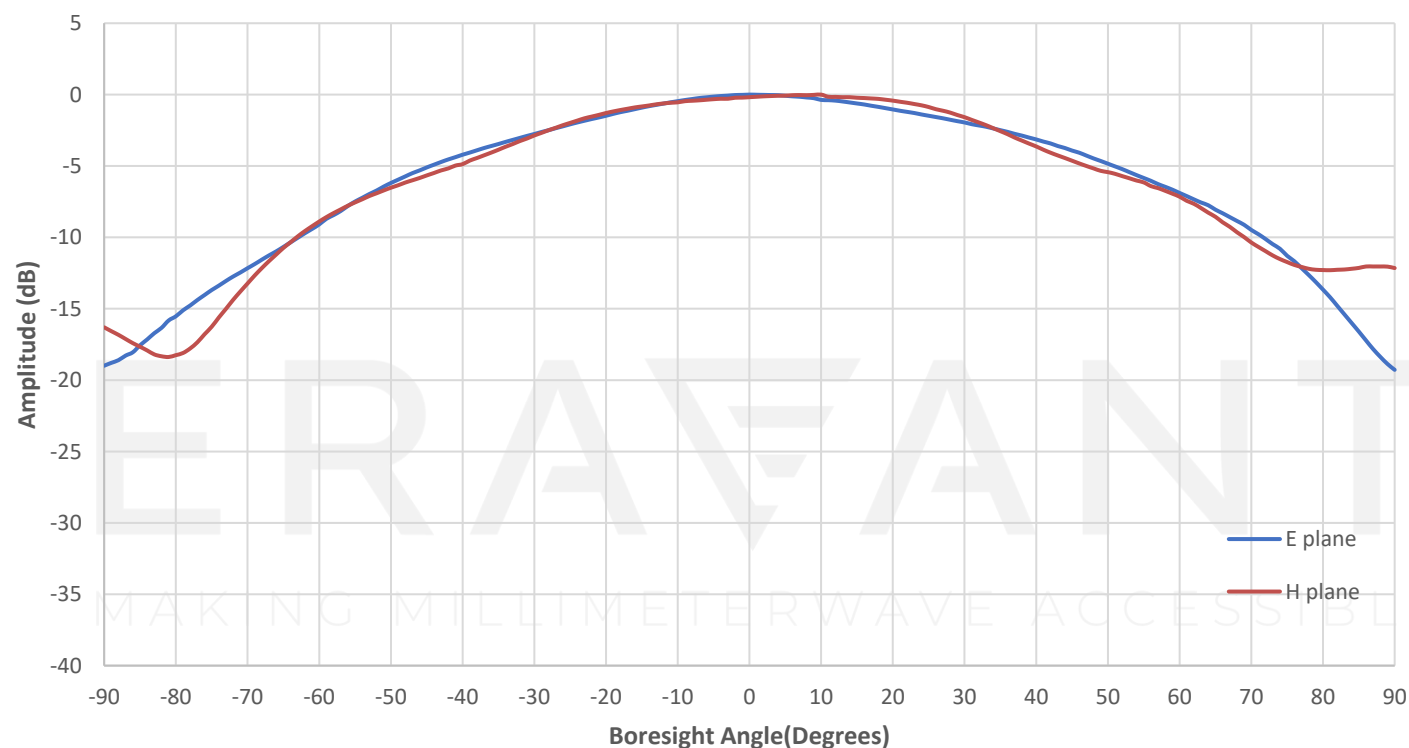
SUPPLEMENTAL DETAILS



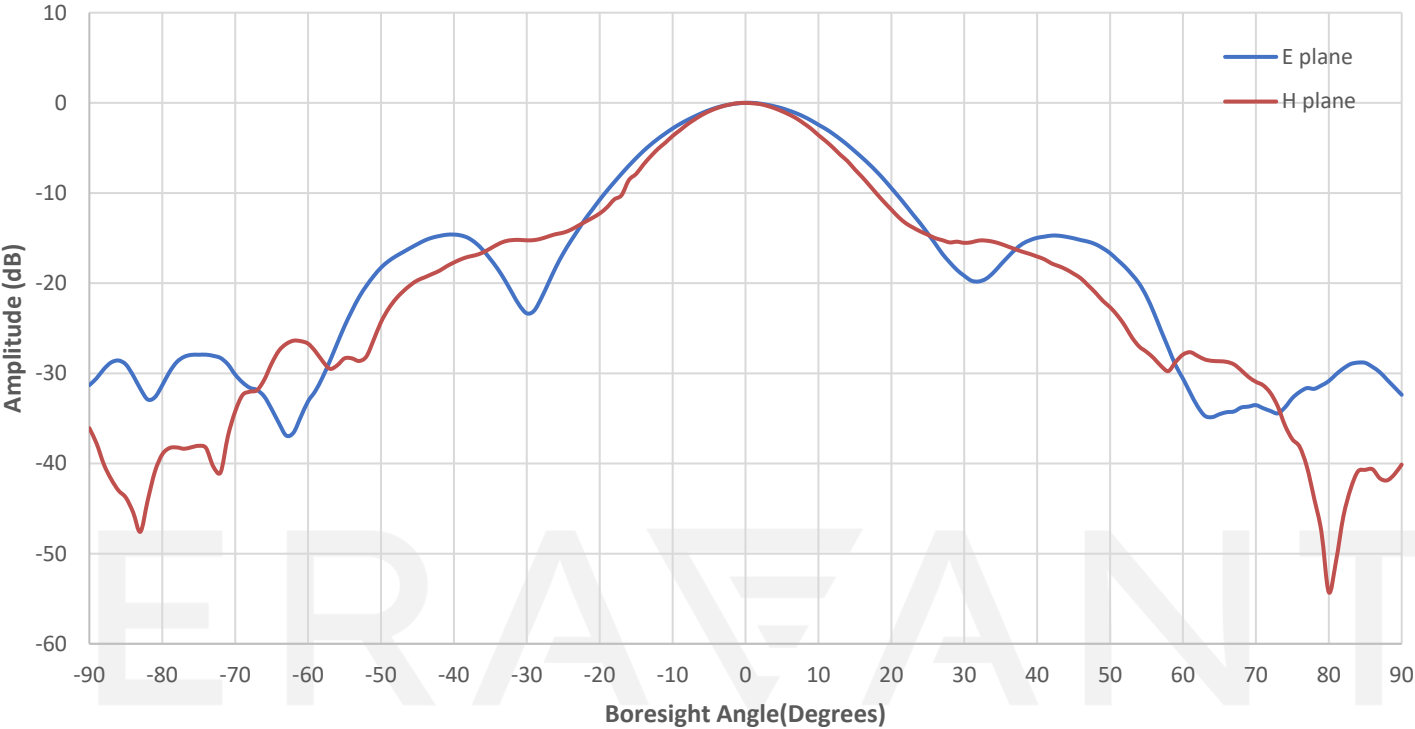
Measured Patterns Port 1 at 2 GHz



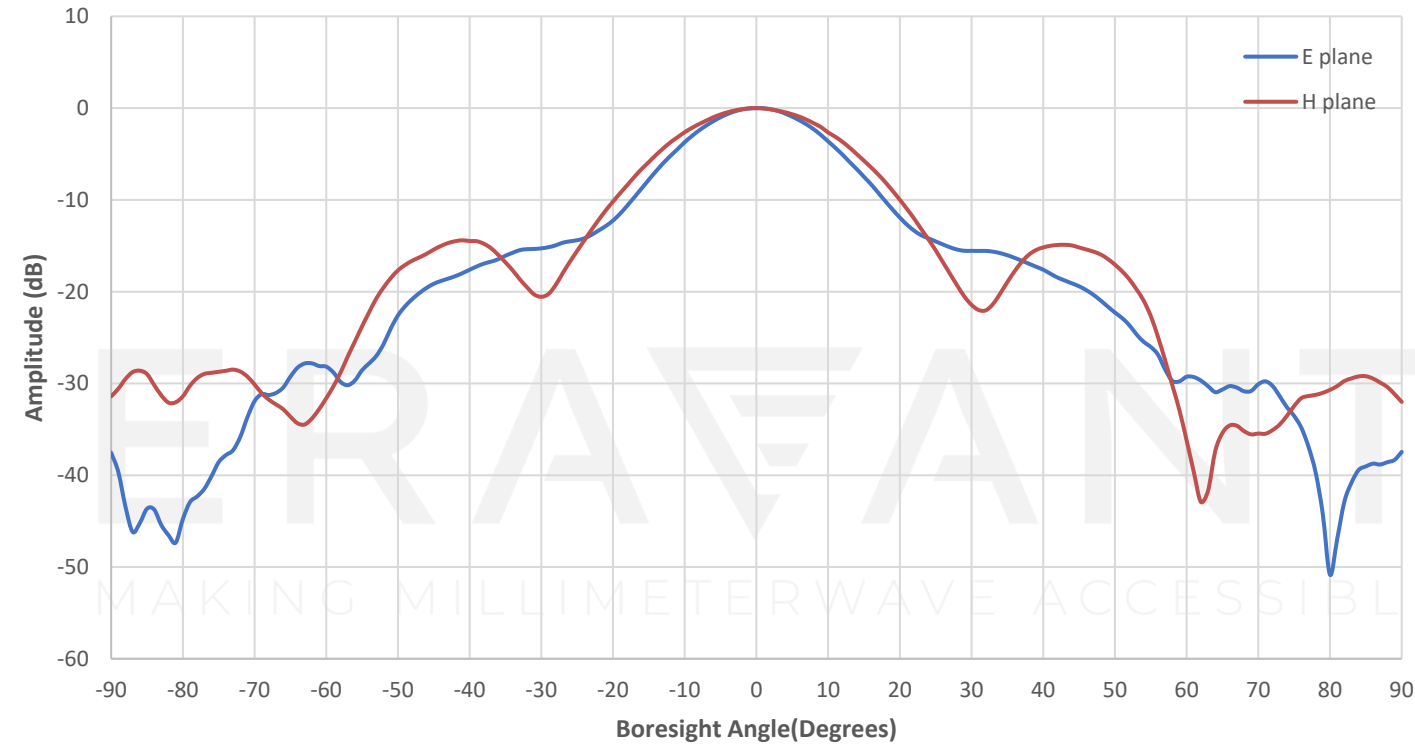
Measured Patterns Port 2 at 2 GHz



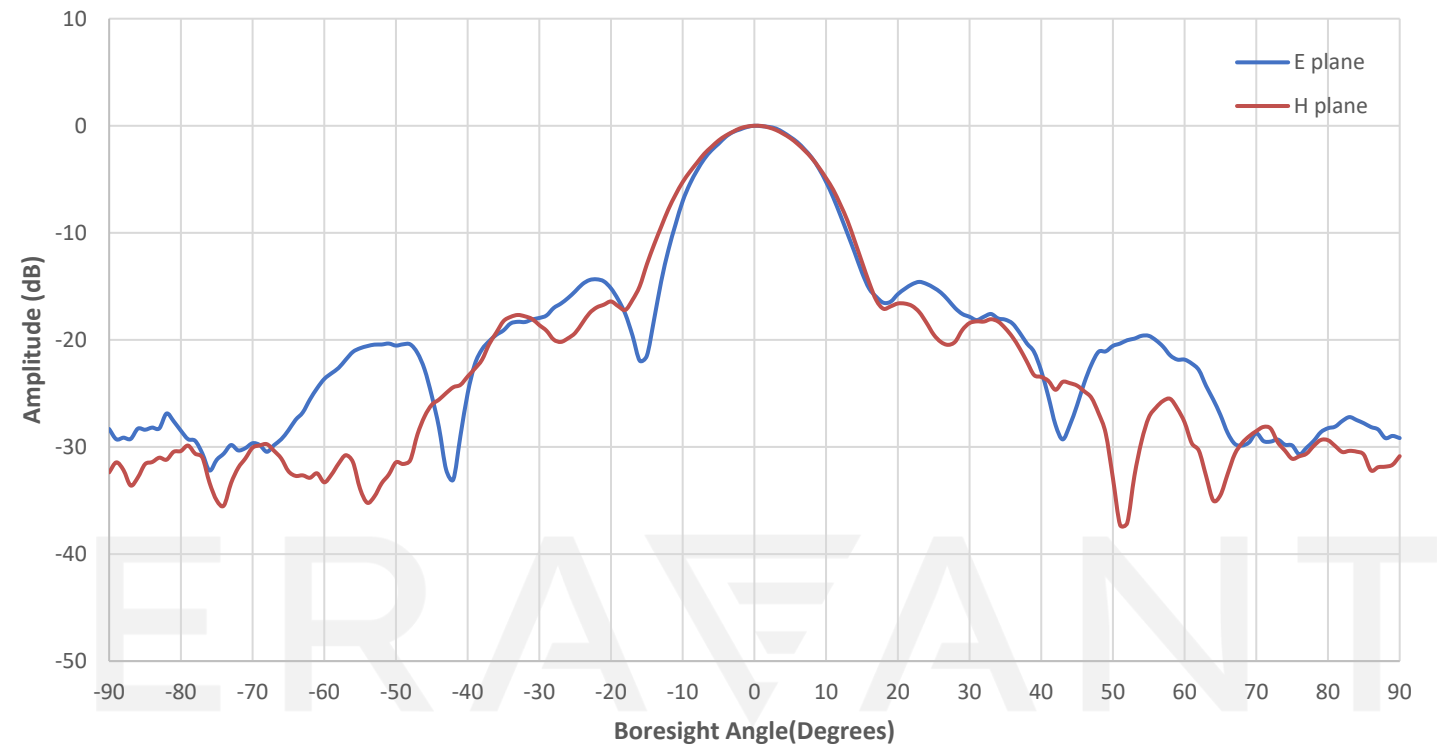
Measured Patterns Port 1 at 10 GHz



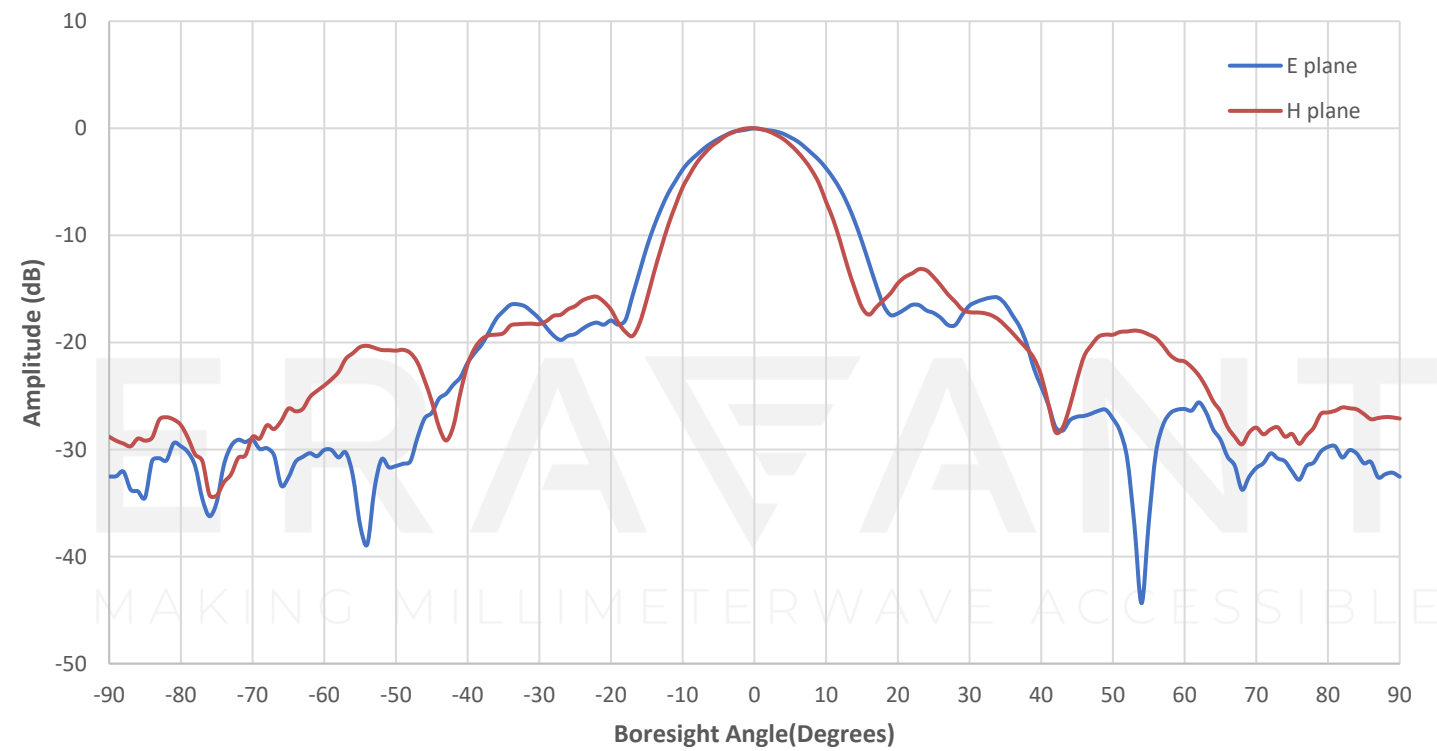
Measured Patterns Port 2 at 10 GHz



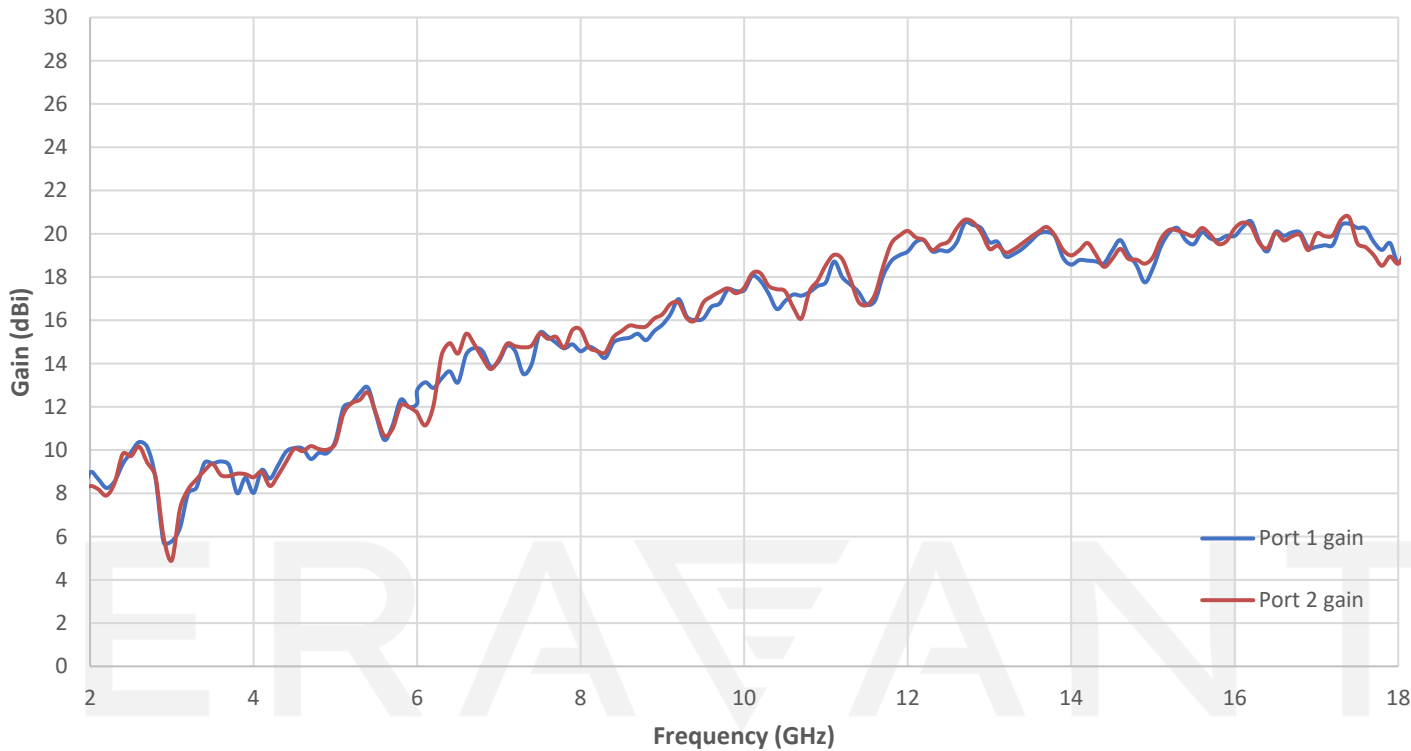
Measured Patterns Port 1 at 18 GHz



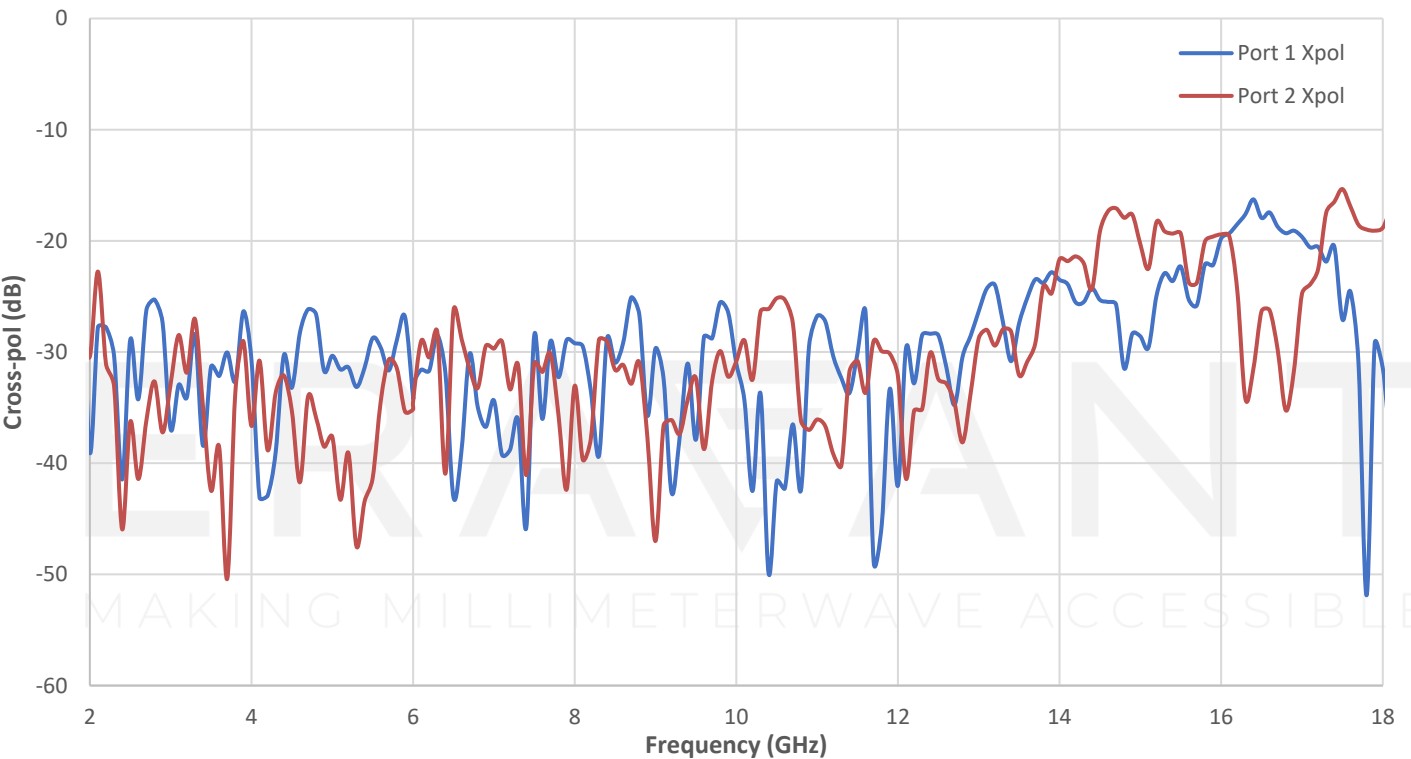
Measured Patterns Port 2 at 18 GHz



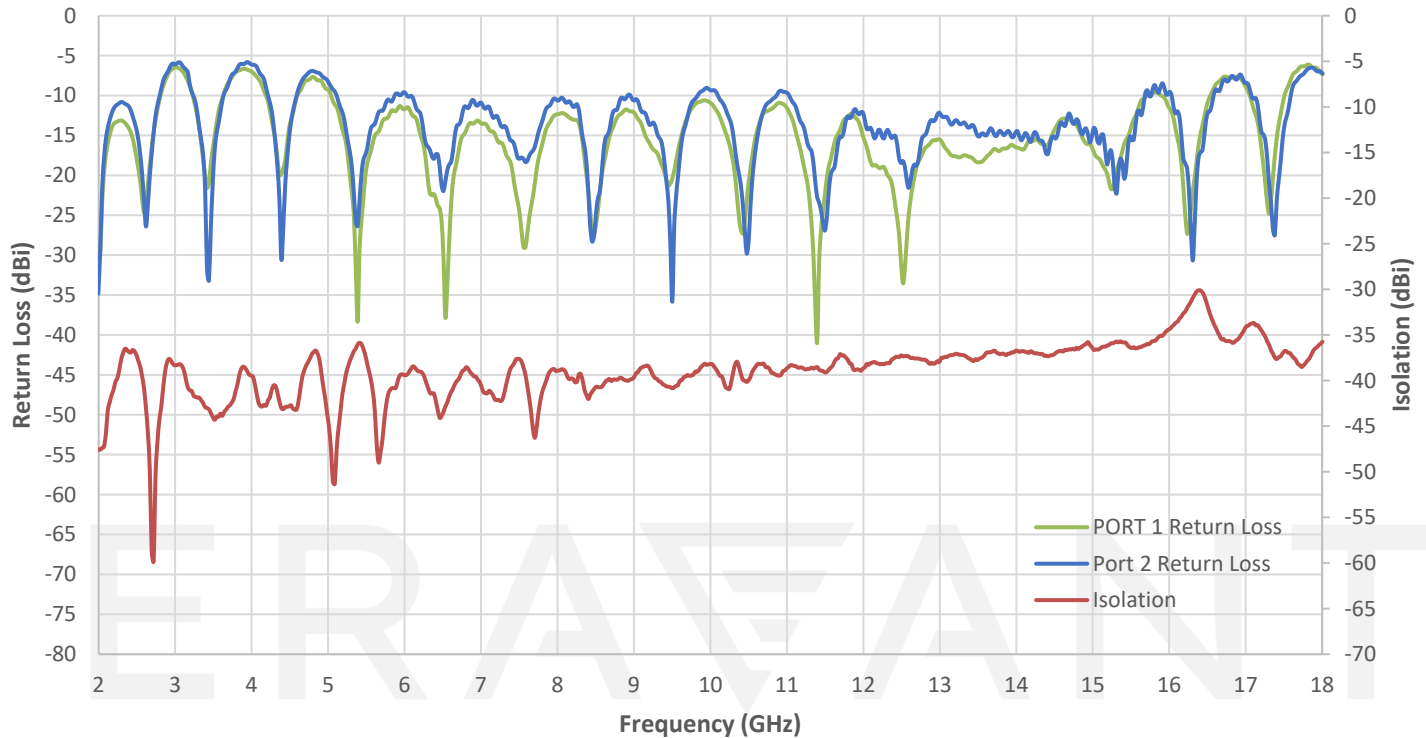
Measured Gain vs Frequency (GHz)



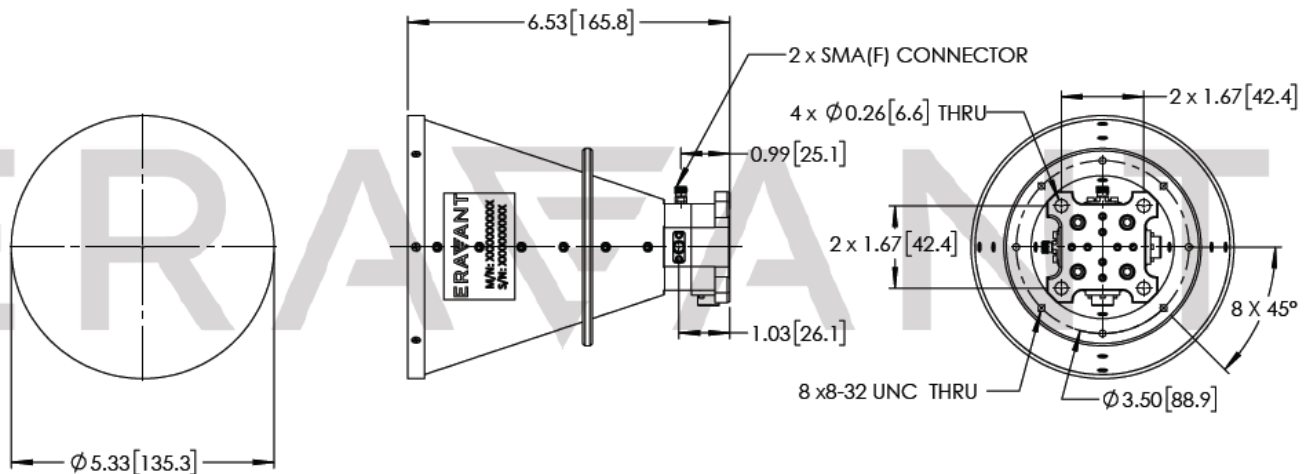
Measured Cross-Pol vs Frequency (GHz)



Measured Return Loss and Isolation vs Frequency



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



NOTE:

- Data provided is simulated. Actual 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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