SAV-0634431050-KF-S1-QR-WPC

Quad-Ridged, Dual Polarized Horn Antenna, 6 to 40 GHz

SAV-0634431050-KF-S1-QR-WPC is a quad-ridged, dual polarized broadband horn antenna that operates from 6 to 40 GHz. The antenna offers a typical half power beamwidth of 45 degrees on the E-plane and 55 degrees on the H-plane. The antenna supports both linear and circular polarized waveforms. The antenna includes an mounting plate with a 1/4-20 threaded hole and various other mounting holes for flexible mounting capacity. The RF ports are equipped with two female 2.92 mm connectors.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	6 GHz		40 GHz
Gain		10 dBi	
Polarization		Linear and Circular	
E-Plane 3 dB Beamwidth		45°	
H-Plane 3 dB Beamwidth		55°	
E-Plane Sidelobe Levels		-15 dB	
H-Plane Sidelobe Levels		-15 dB	
Port Isolation		25 dB	
Cross Polarization		20 dB	
Port Return Loss		10 dB	
Power Handling			10 W (CW)
Specification Temperature		+25 ˚C	
Operating Temperature	-40 ˚C		+85 ˚C

Mechanical Specifications:

Item	Specification
Antenna Ports	2.92 mm (F)
Mounting	Mounting Plate with ¼-20 Threaded Hole
Material	Aluminum
Finish	Chem Film (Antenna), Black Anodized (Antenna Mount Plate)
Weight	1.2 Oz
Outline	AK-AC-C10-QR

ECCN

EAR99

FEATURES

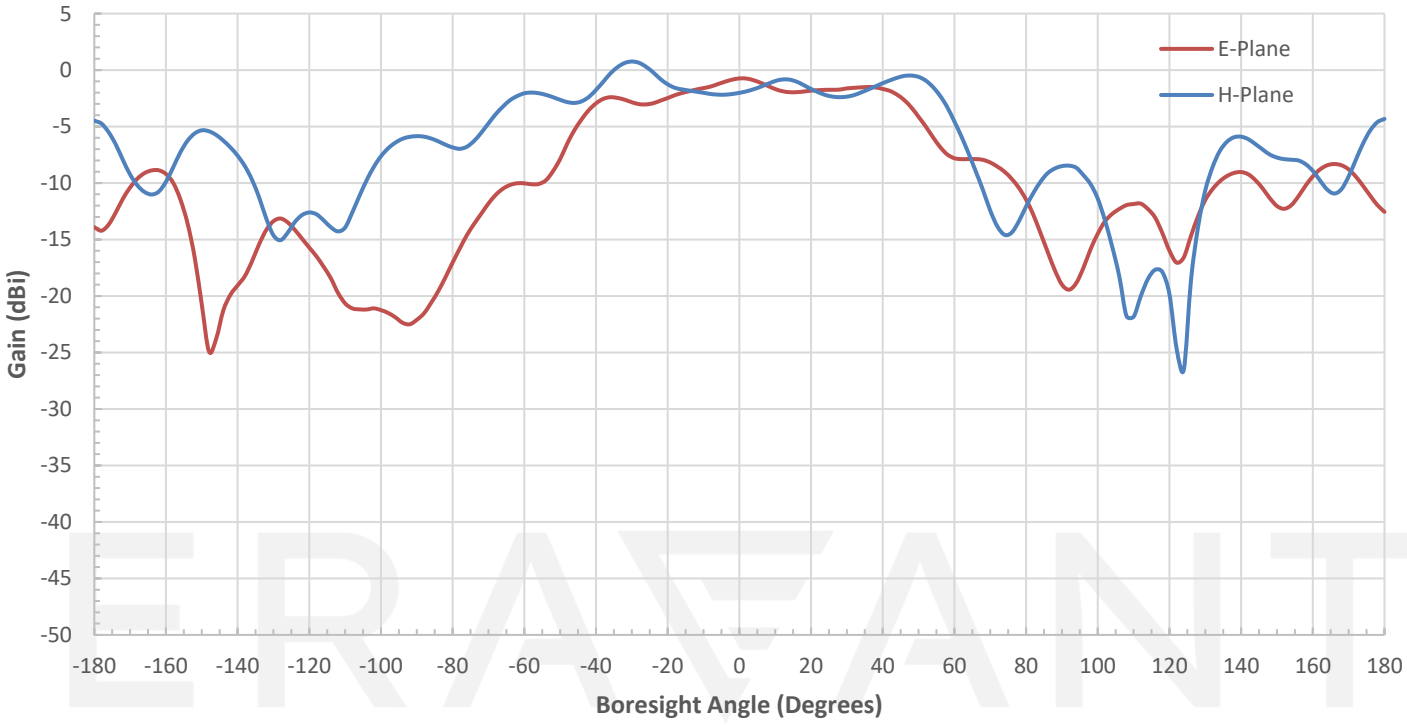
- Broadband Operation
- Coaxial Connector for RF Input
- Linear and Circular Polarization
- Good Impedance Match

APPLICATIONS

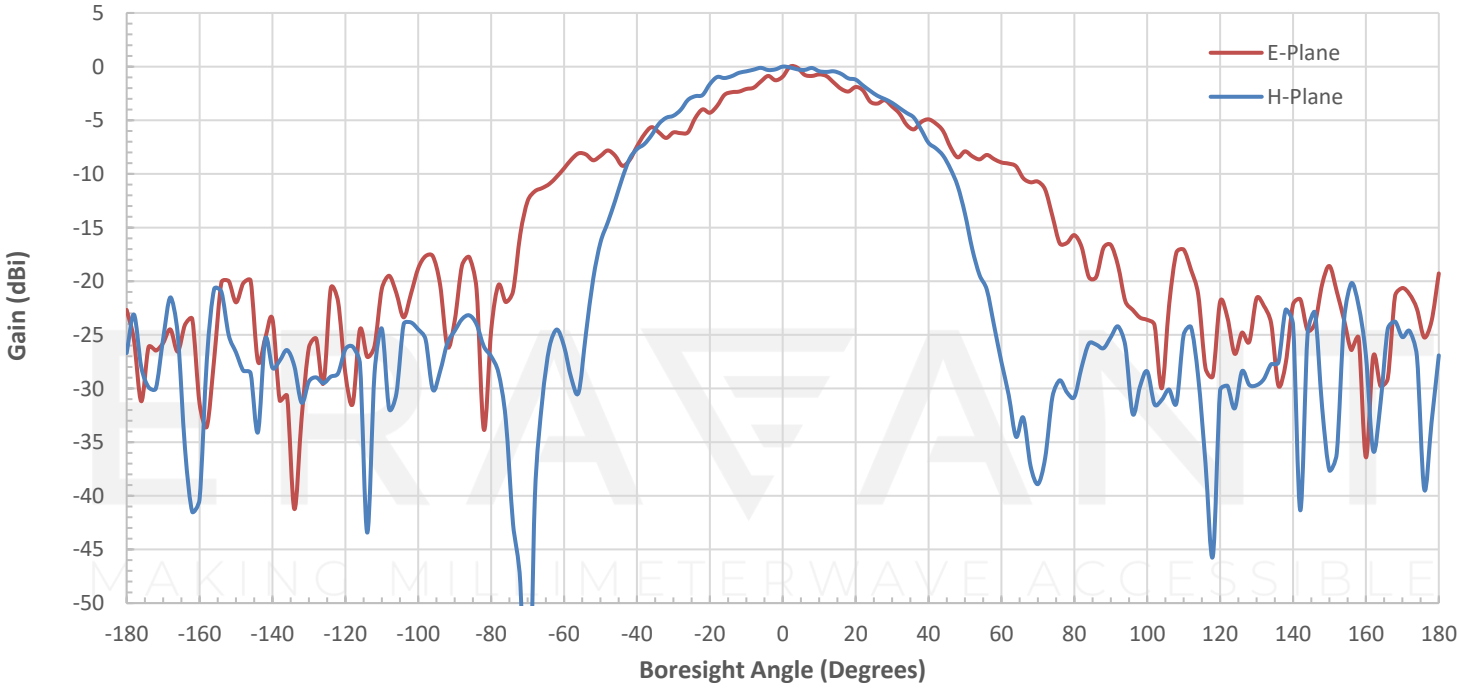
- 5G mmW Systems
- Antenna Ranges
- Antenna Gain Measurements
- System Setups

SUPPLEMENTAL DETAILS

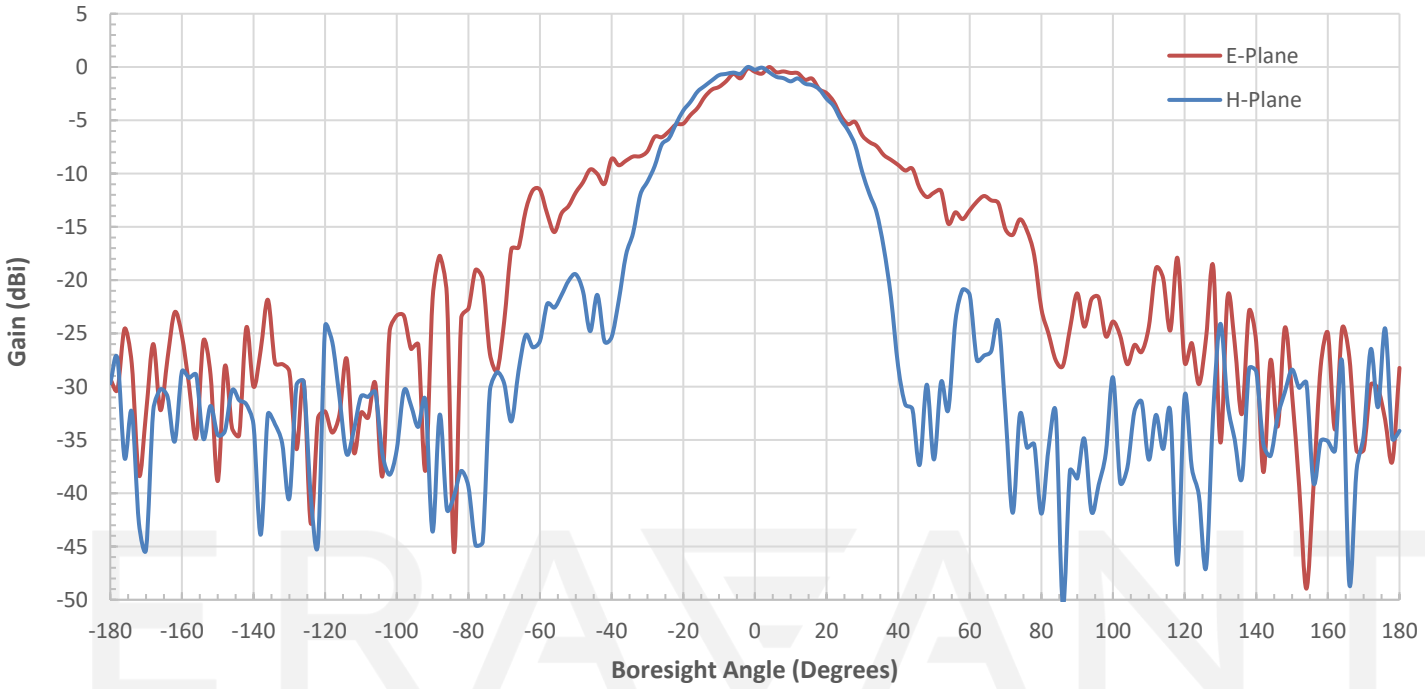
Typical Antenna Pattern @ 6 GHz



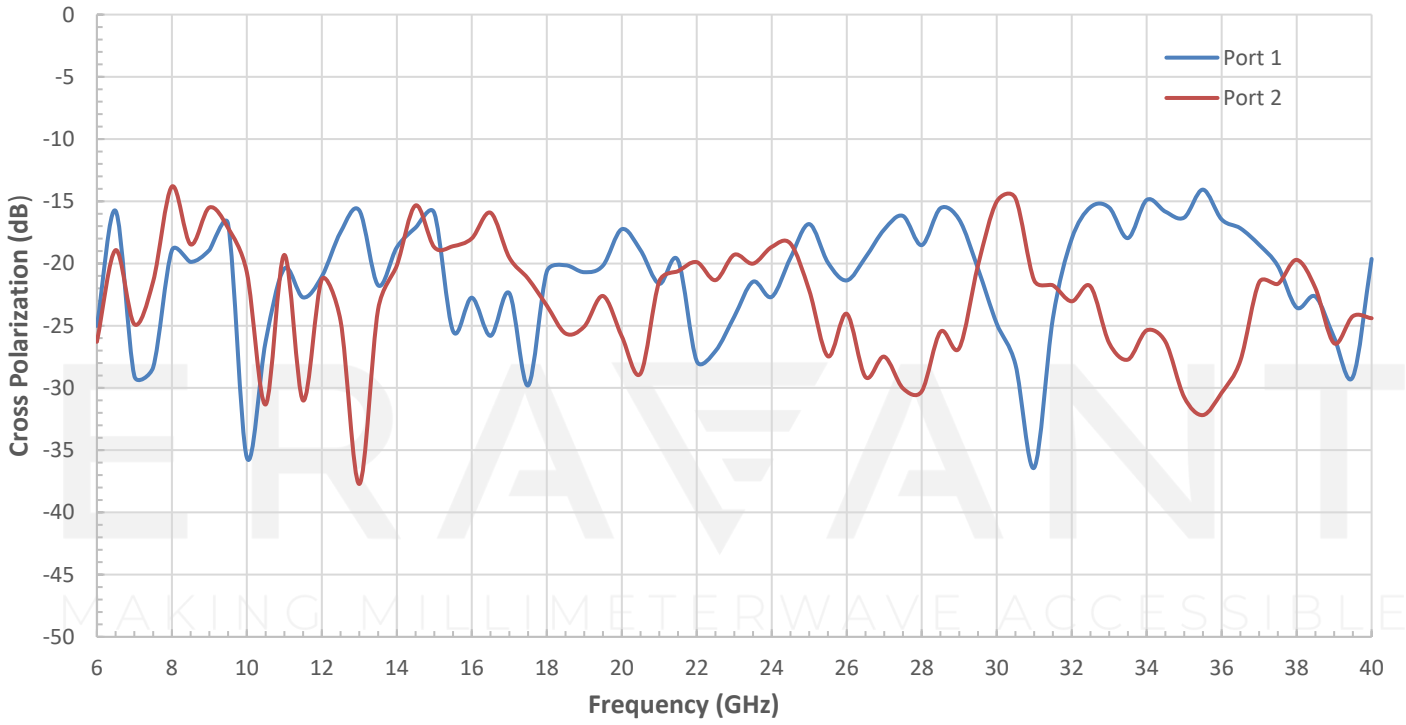
Typical Antenna Pattern @ 23 GHz



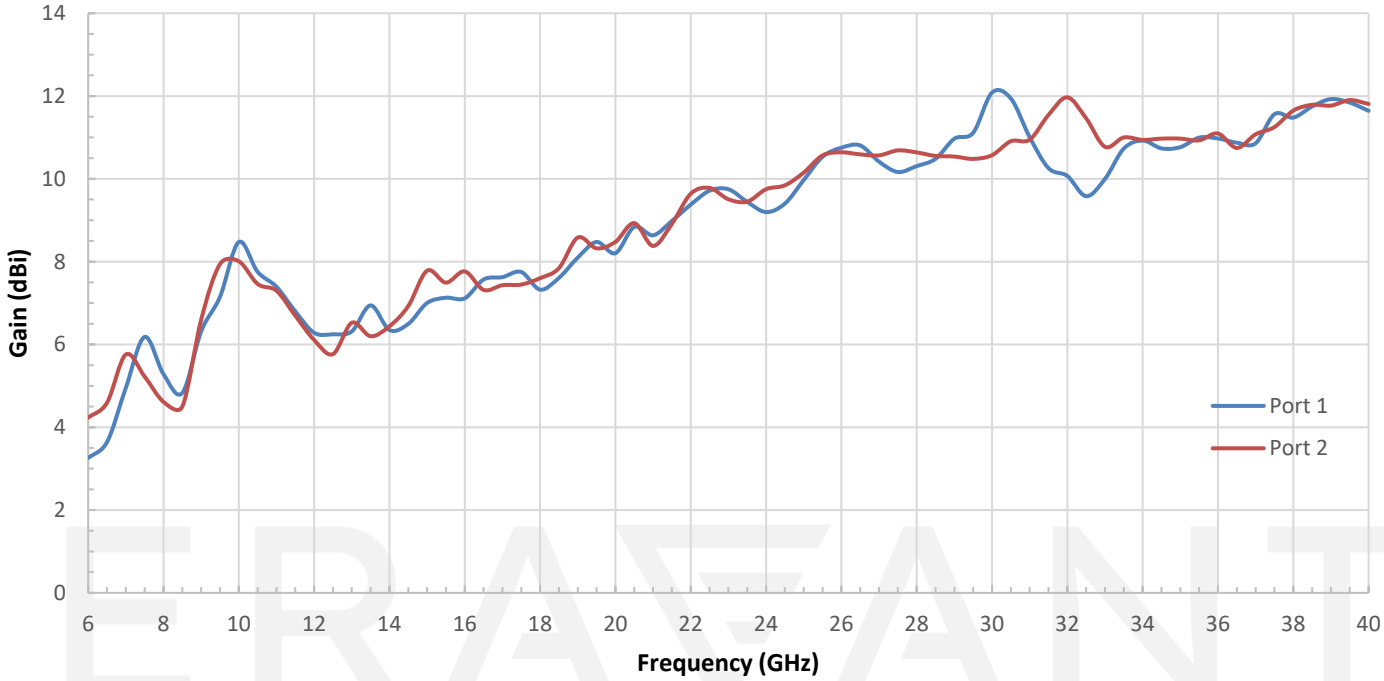
Typical Antenna Pattern @ 40 GHz



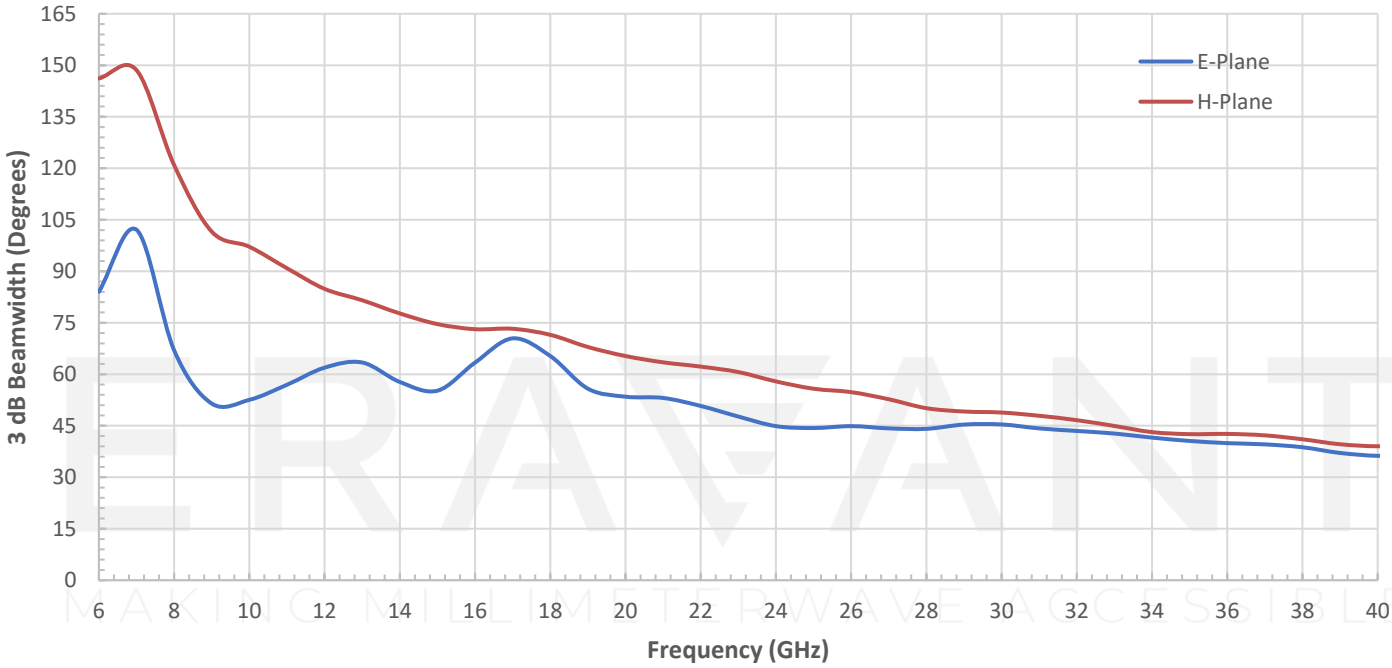
Typical Cross Polarization vs Frequency



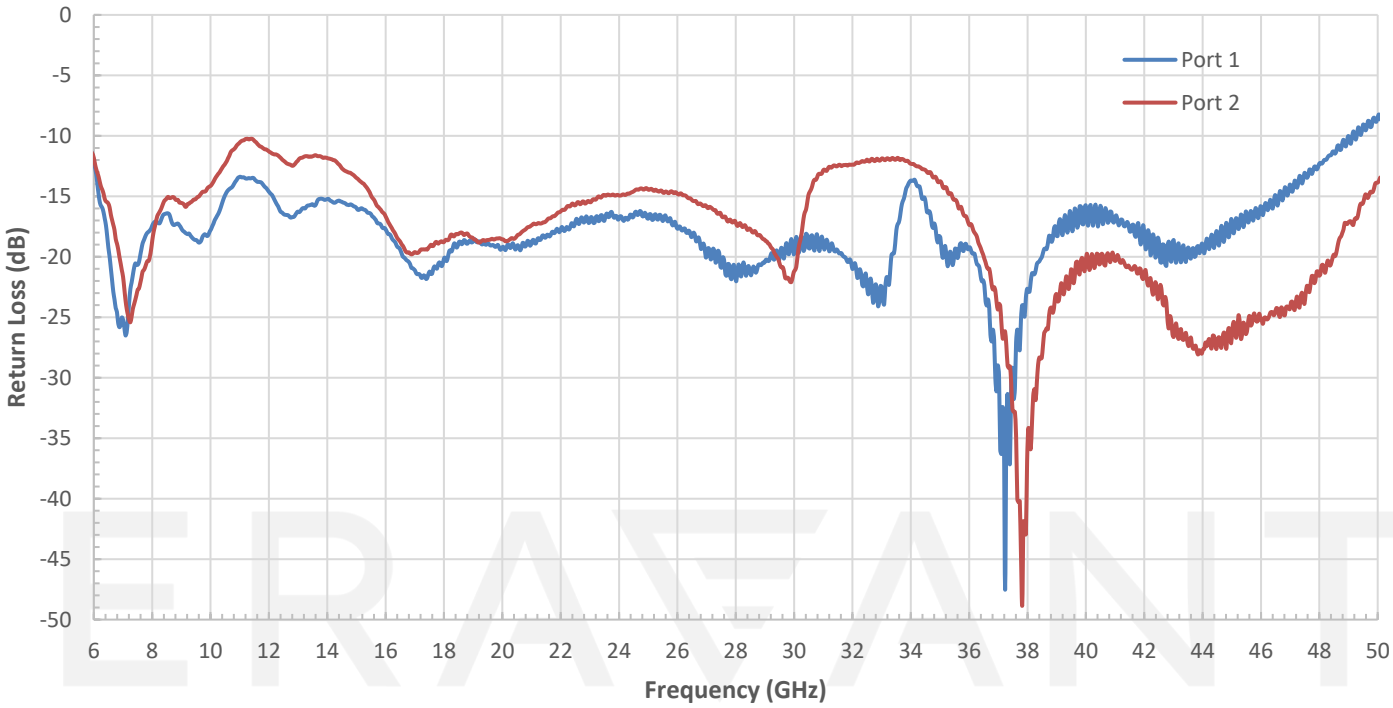
Typical Gain vs. Frequency



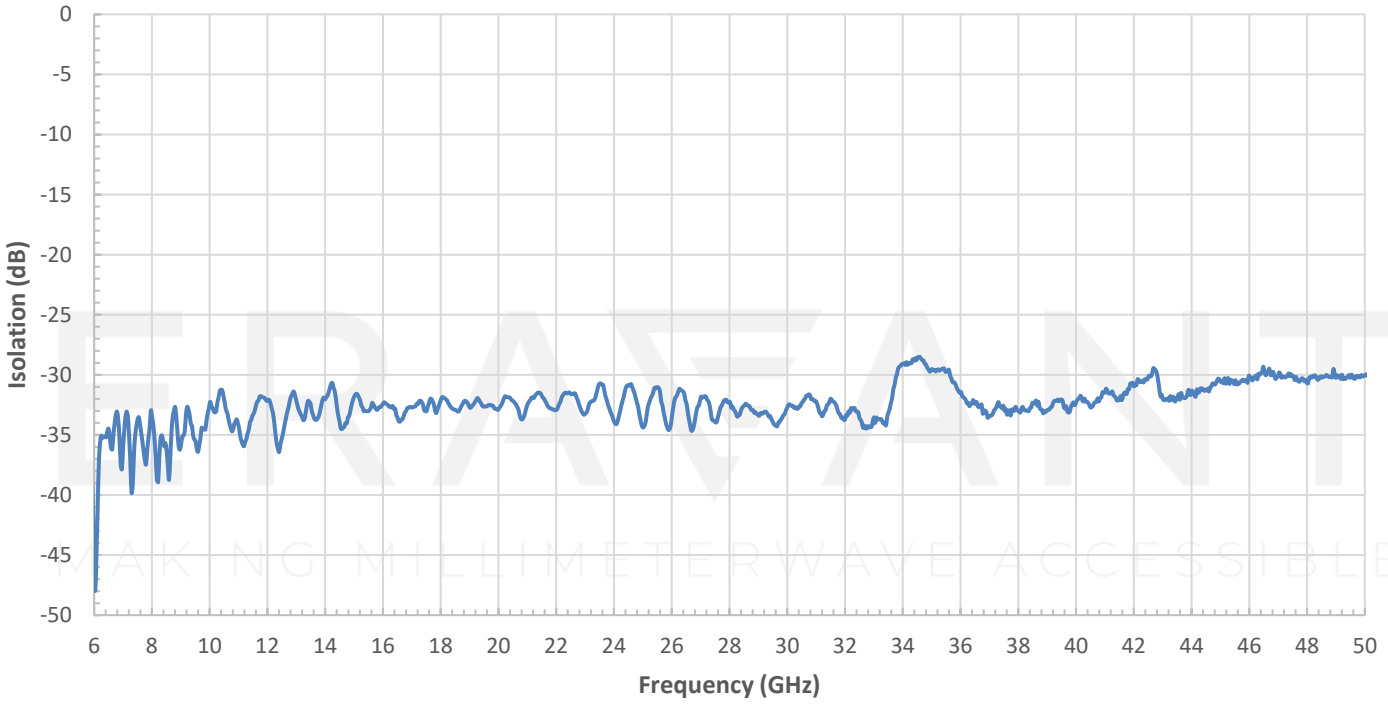
Simulated 3 dB Beamwidth vs. Frequency



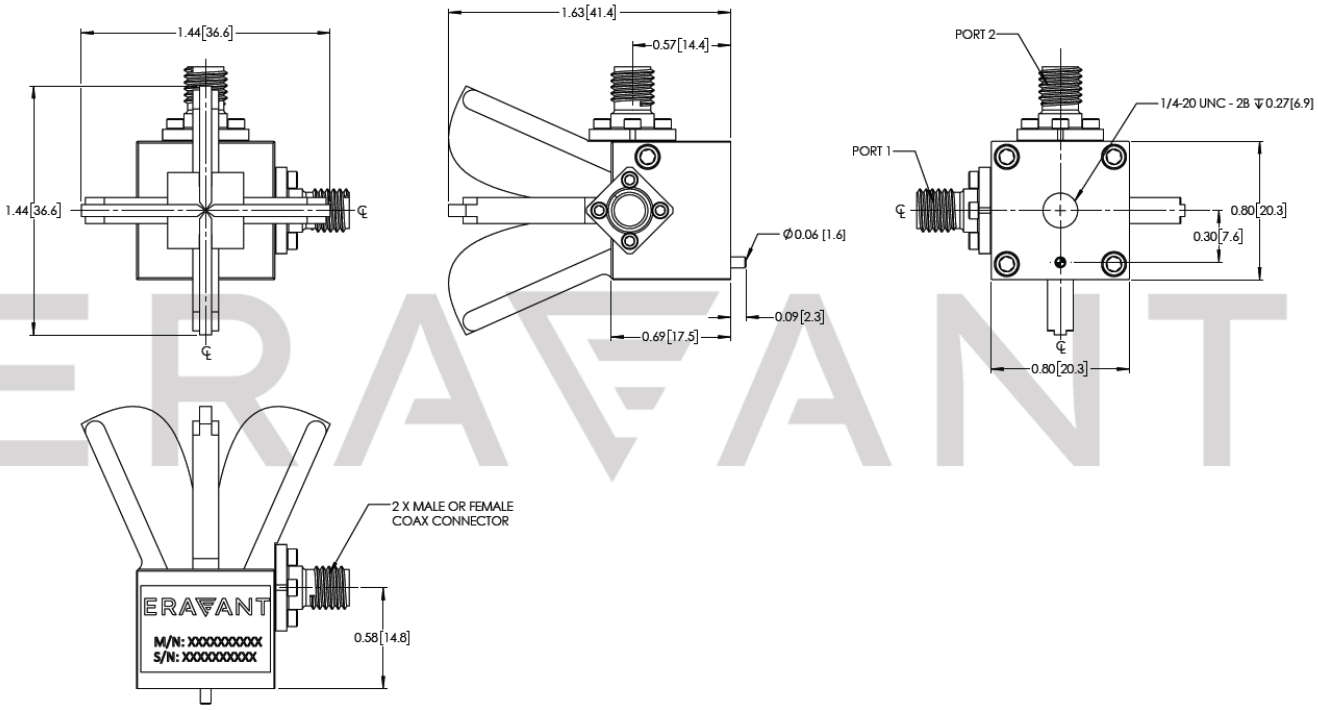
Typical Return Loss vs Frequency



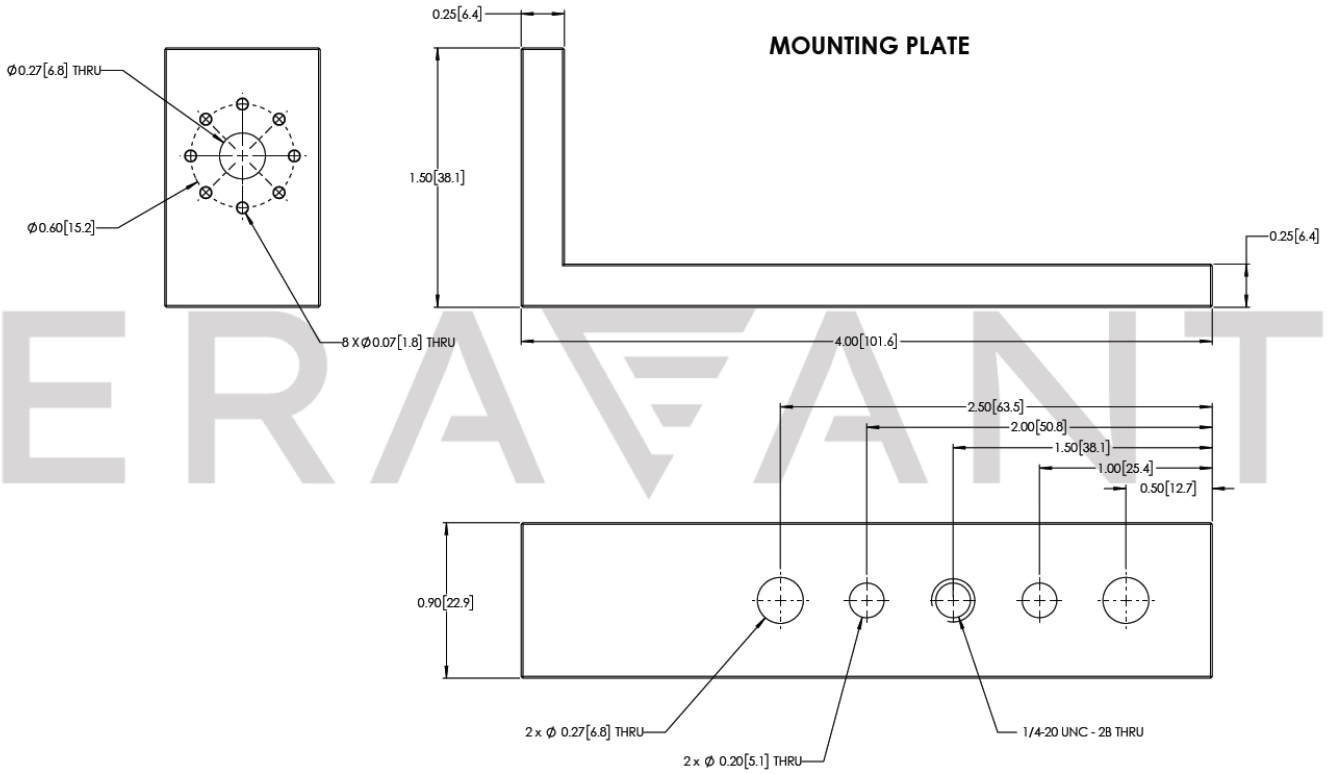
Typical Isolation vs Frequency



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



Antenna Mount Outline:



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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