

SAV-0131231720-SF-S1-QR

Quad-Ridged, Dual Polarized Horn Antenna, 1 to 12 GHz

SAV-0131231720-SF-S1-QR is a quad-ridged horn antenna that operates from 1 to 12 GHz. The antenna offers a typical gain of 17 dBi and a nominal 3 dB beamwidth of 20° 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	1 GHz		12 GHz
Gain		17 dBi	
Polarization		Linear and Circular	
E-Plane 3 dB Beamwidth		20°	
H-Plane 3 dB Beamwidth		20°	
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
Len Material	HDPE
Outline	AV-C17-QR-3

ECCN

EAR99

FEATURES

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

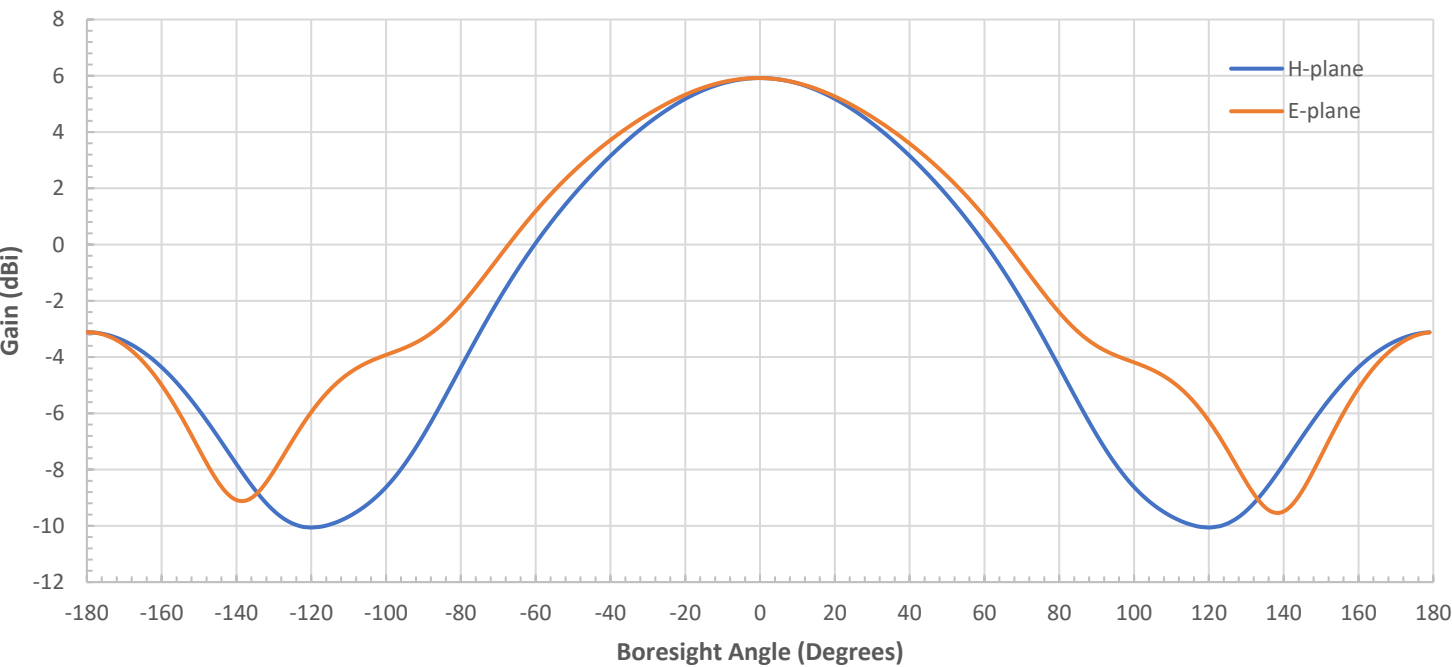
APPLICATIONS

- Antenna Ranges
- Antenna Gain Measurements
- System Setups

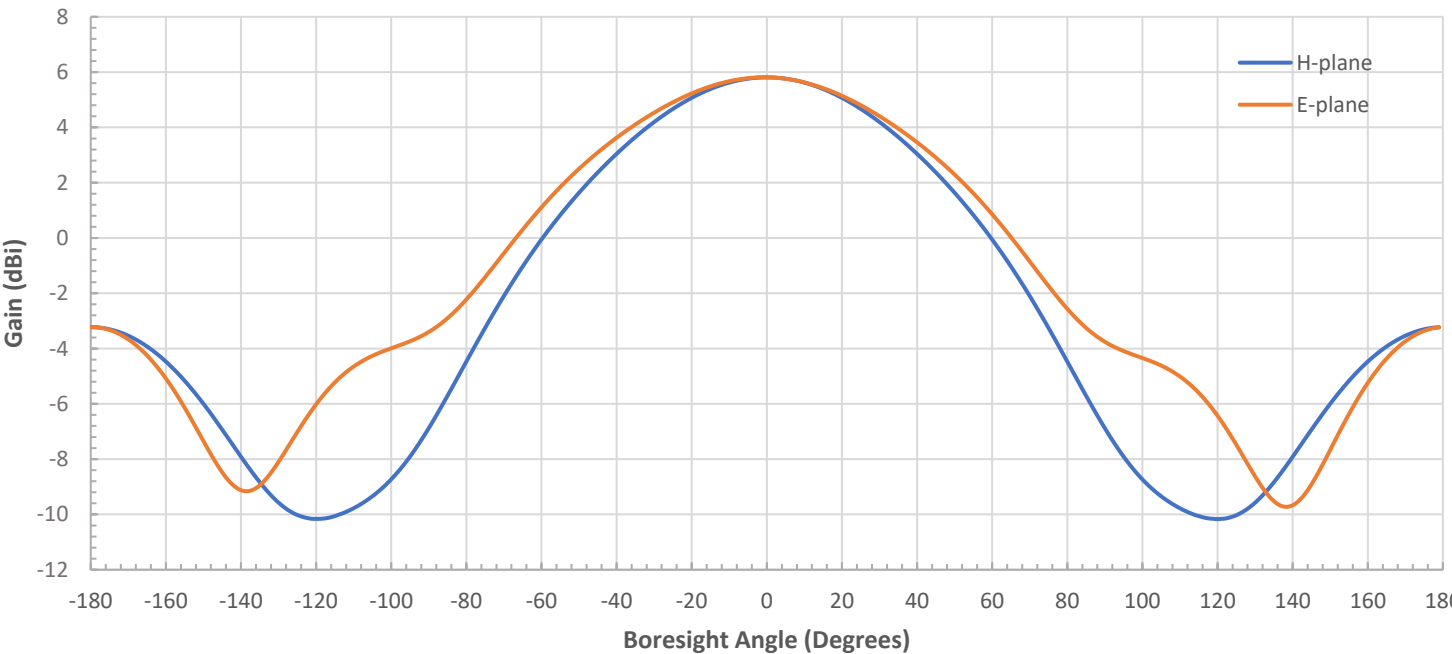
SUPPLEMENTAL DETAILS



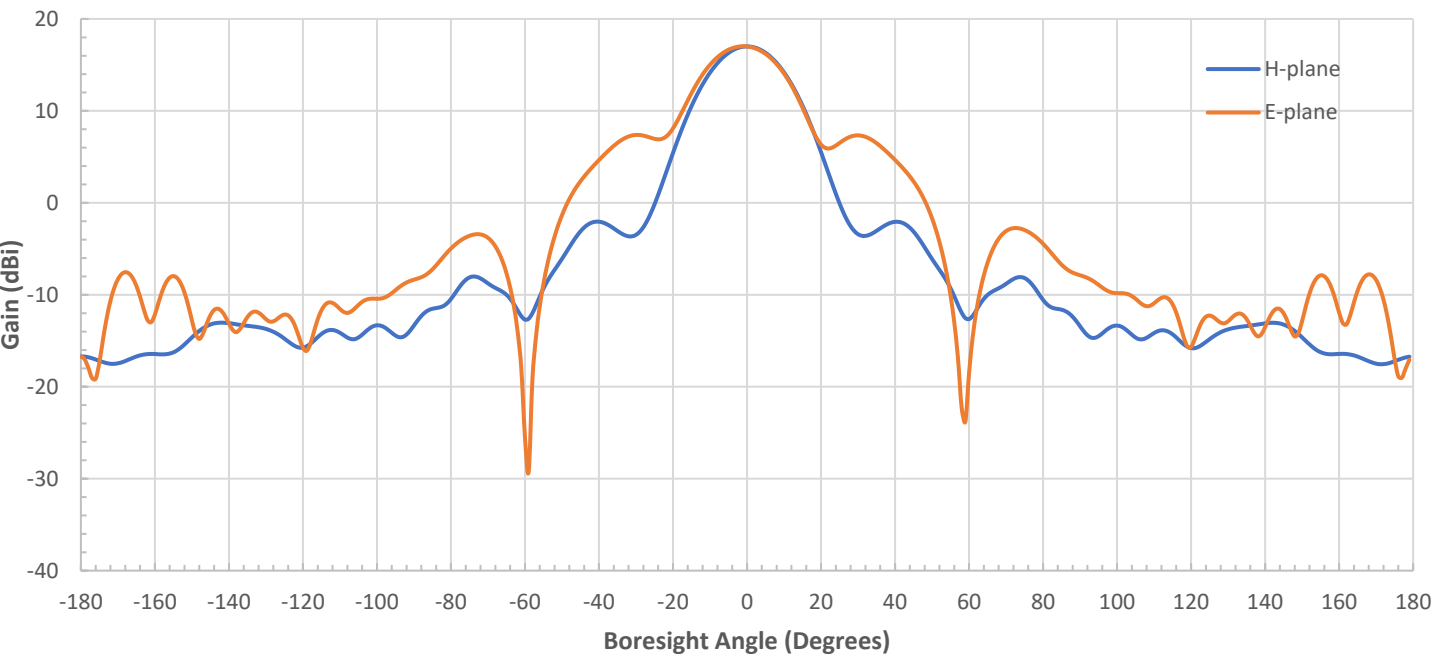
Simulated Pattern at 1 GHz (Port 1)



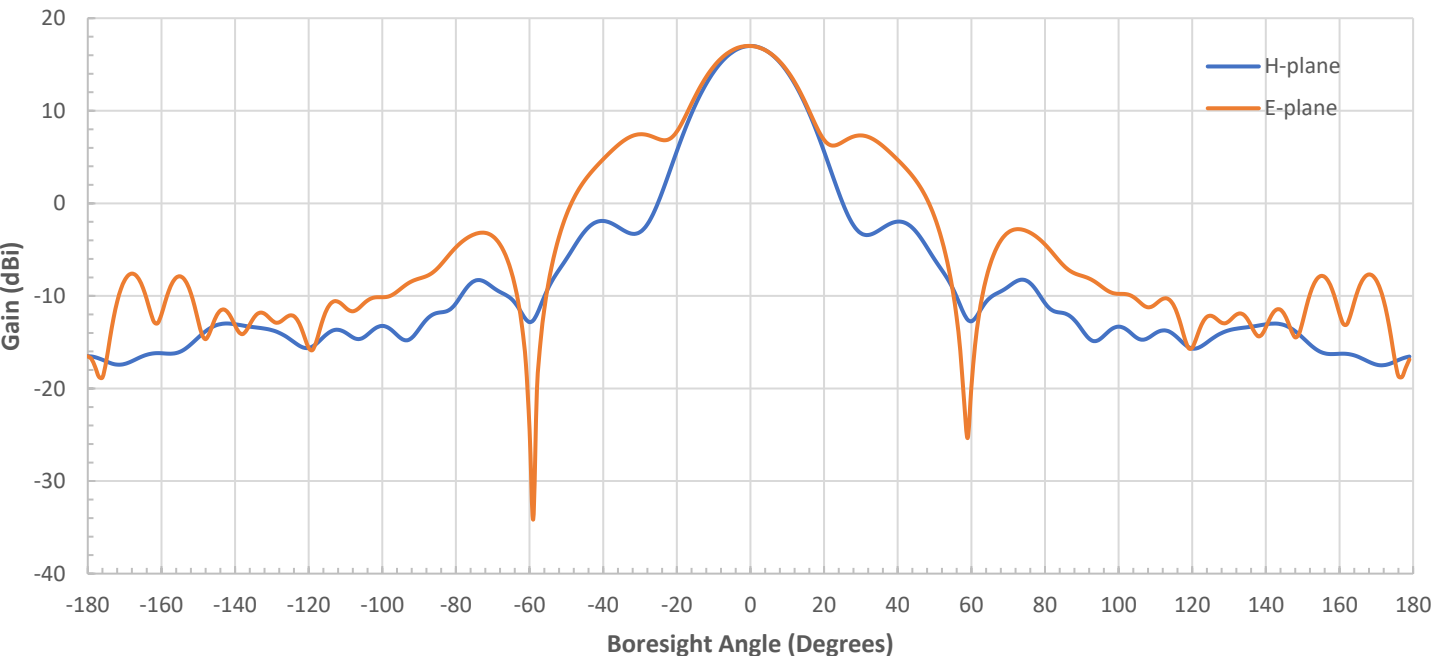
Simulated Pattern at 1 GHz (Port 2)



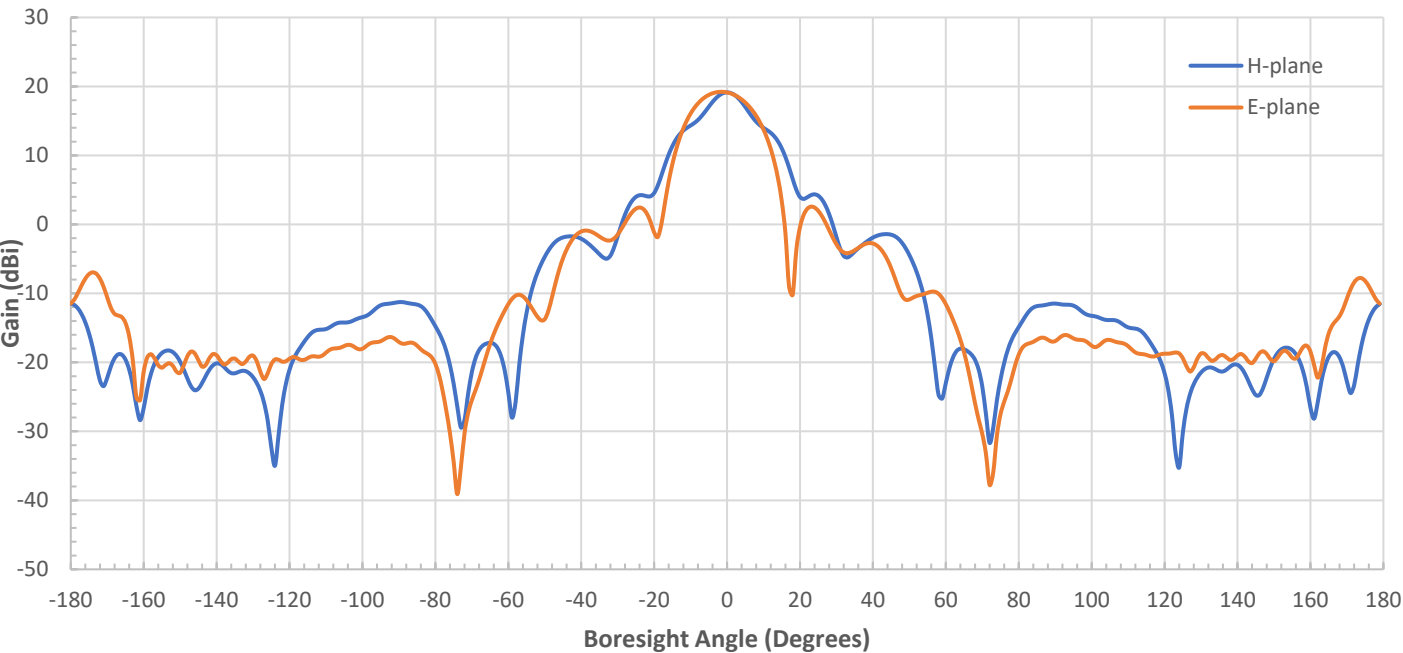
Simulated Pattern at 6.5 GHz (Port 1)



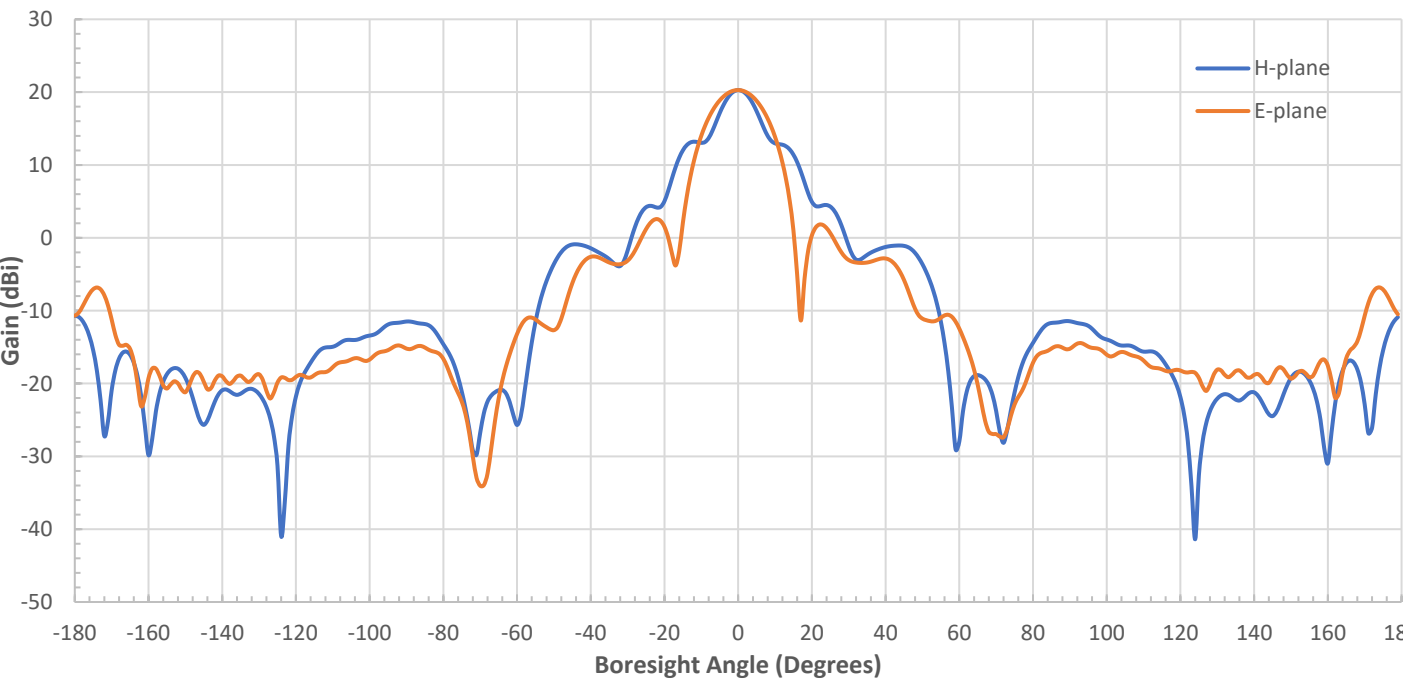
Simulated Pattern at 6.5 GHz (Port 2)



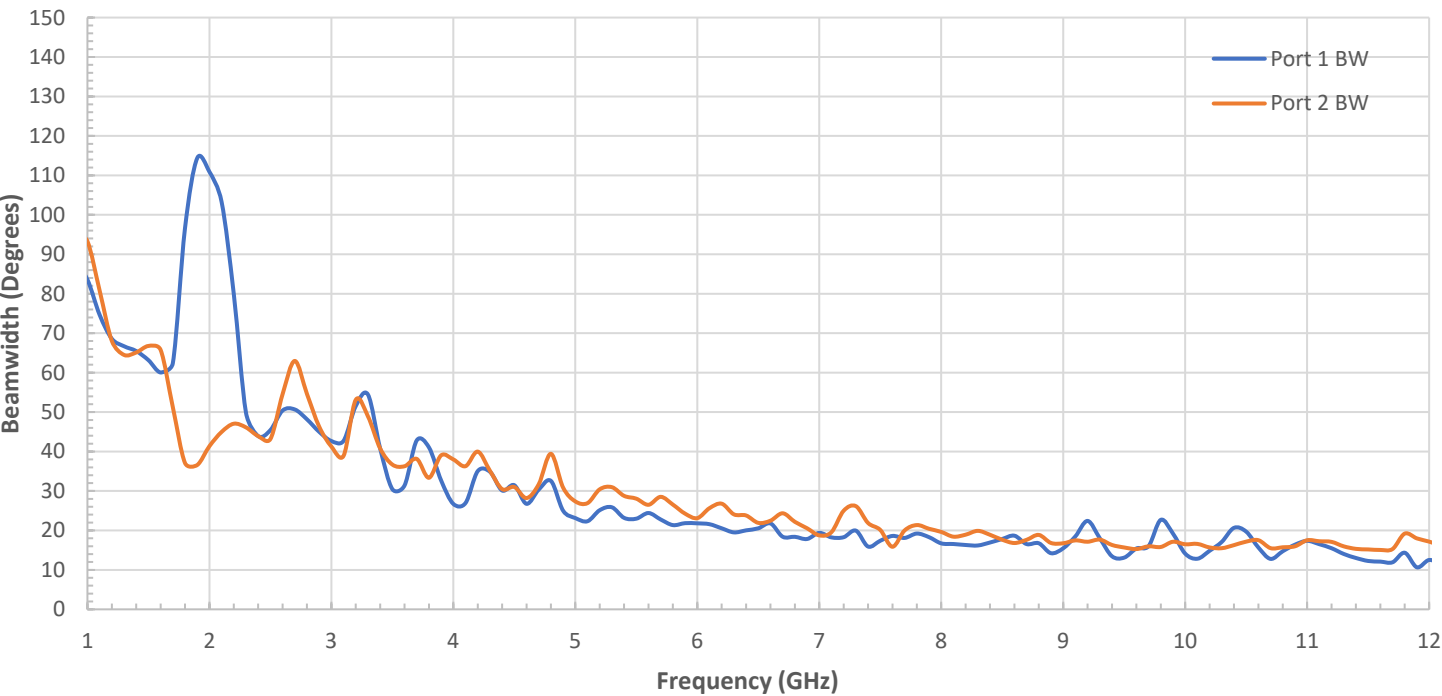
Simulated Pattern at 12 GHz (Port 1)



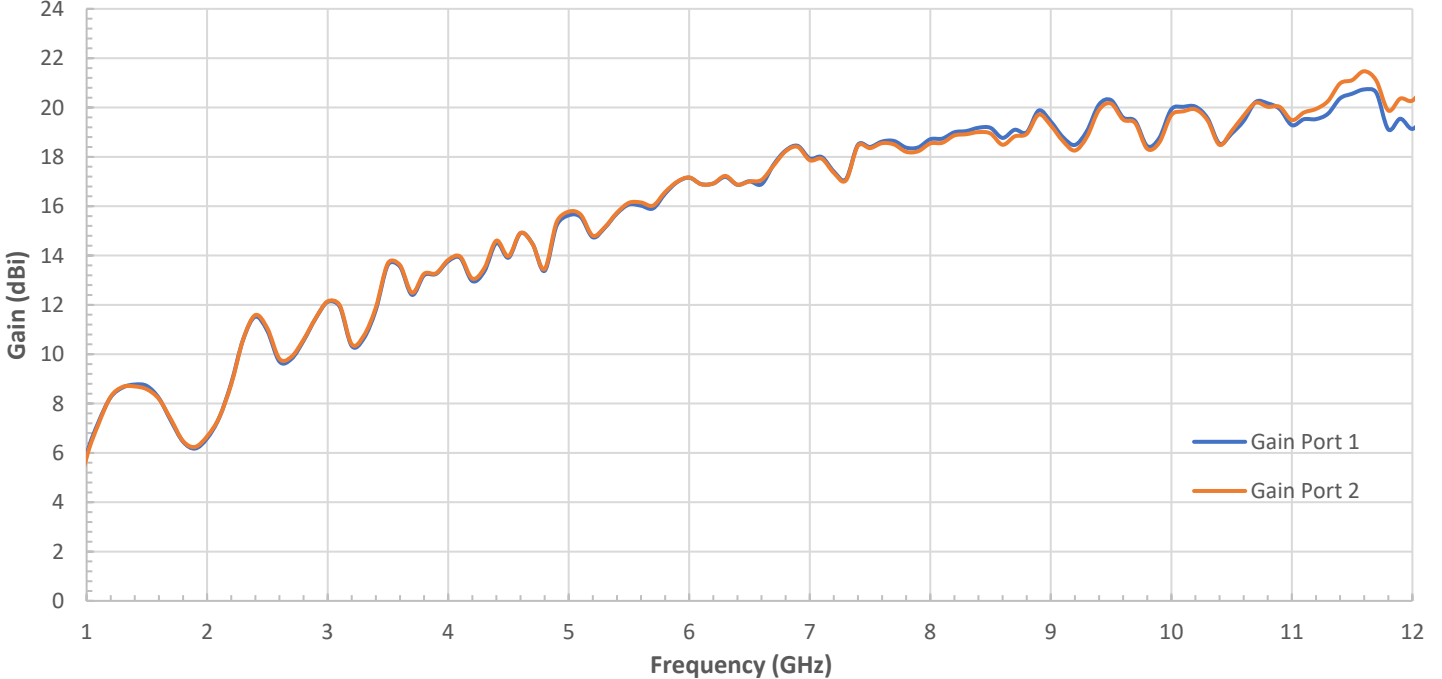
Simulated Pattern at 12 GHz (Port 2)



Simulated Beamwidth vs Frequency

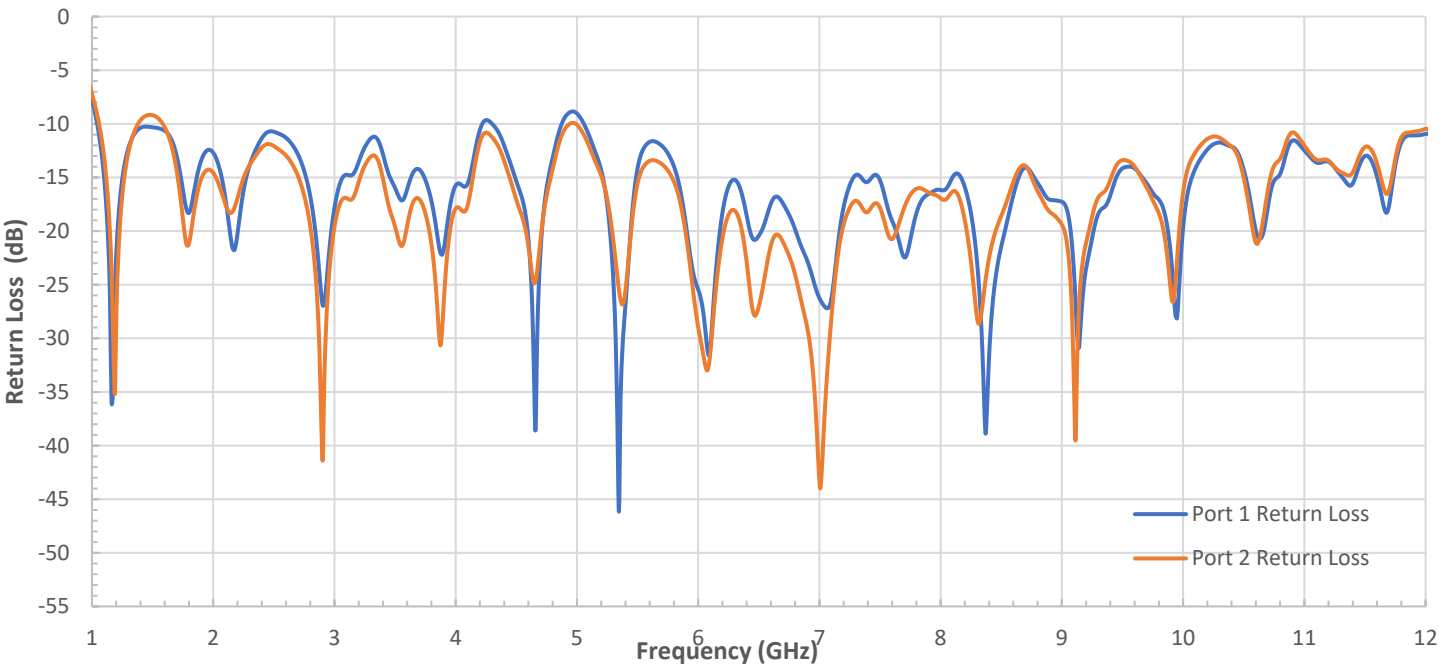


Simulated Gain vs Frequency

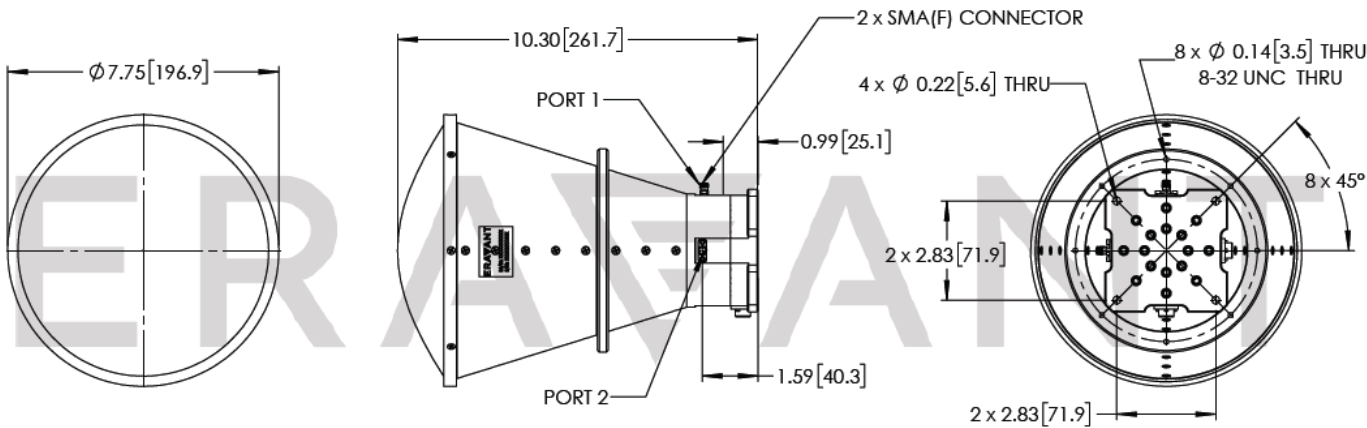


SAV-0131231720-SF-S1-QR

Simulated Return Loss 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 waveguide or antenna will cause performance degradation and may damage or destroy the unit.