

SAR-1532-750-S2

WR-75, Square Horn Antenna, 15 dBi Gain

SAR-1532-750-S2 is a square horn antenna that operates from 10 GHz to 15 GHz. The antenna offers 15 dBi nominal gain and a typical half power beamwidth of 22 degrees on the E-plane and 32 degrees on the H-plane. The antenna supports linear polarized waveforms. The input of this antenna is a 0.75" X 0.75" waveguide with standard flange.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	10 GHz	12.5 GHz	15 GHz
Gain		15 dBi	
Polarization		Linear	
3 dB Beamwidth, E-Plane		22°	
3 dB Beamwidth, H-Plane		32°	
Sidelobes, E-Plane		-10 dB	
Sidelobes, H-Plane		-20 dB	
Return Loss		25 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Antenna Port	0.75" x 0.75" Waveguide with Standard Flange
Material	Aluminum
Finish	Inside: Silver Plated; Outside: Black Paint
Weight	2 Oz
Outline	AR-715-750

ECCN

EAR99

FEATURES

- Square Waveguide Interface
- Precisely Machined
- Linear Polarization
- High Return Loss

APPLICATIONS

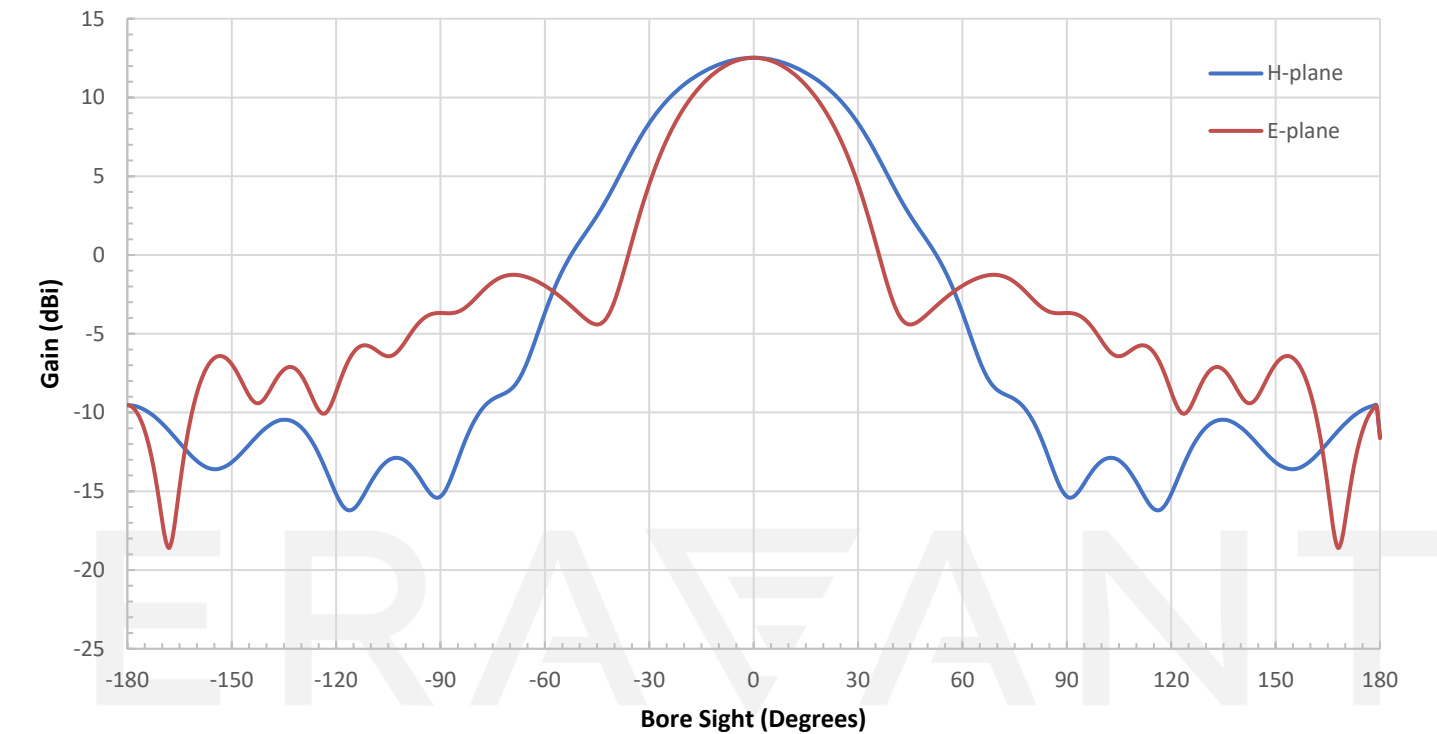
- Antenna Ranges
- Antenna Gain Measurements
- System Setups

SUPPLEMENTAL DETAILS

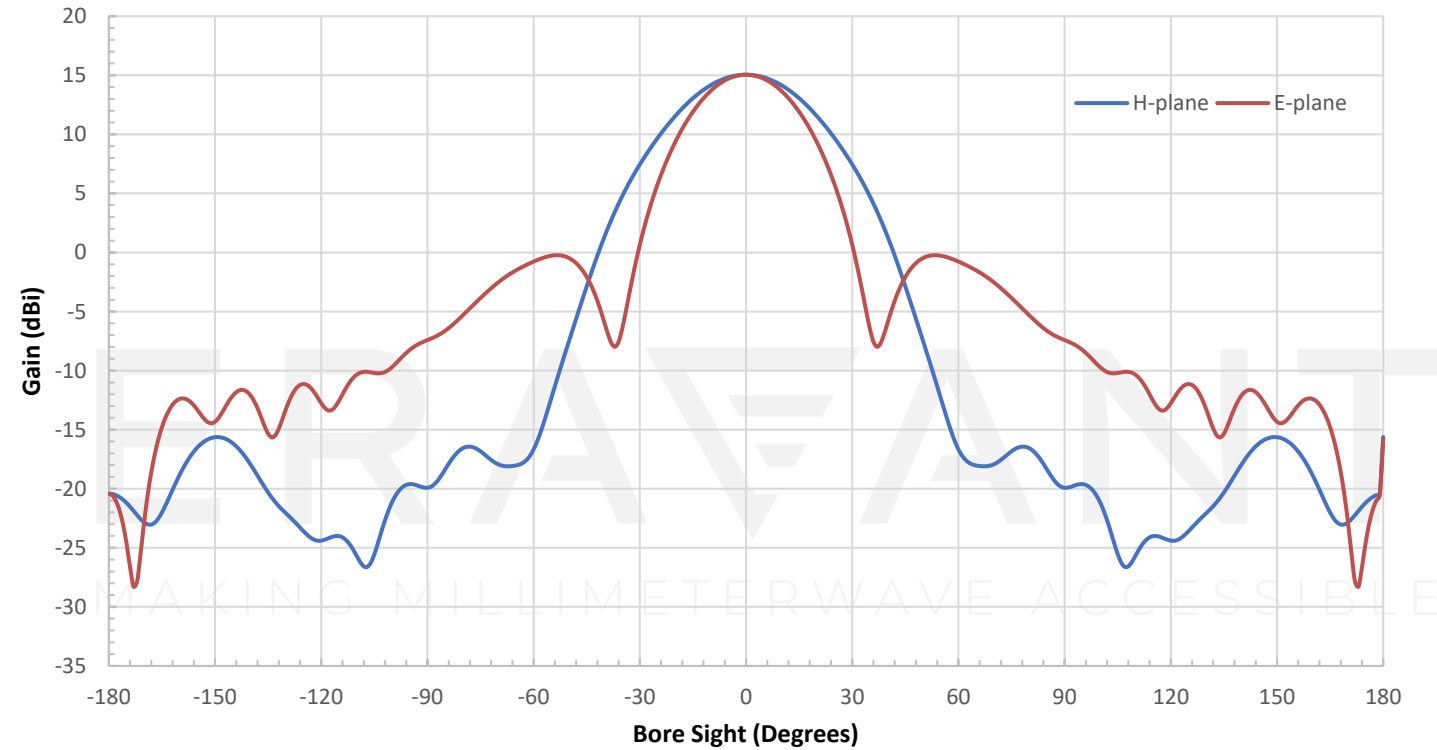


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Simulated Antenna Pattern at 10 GHz

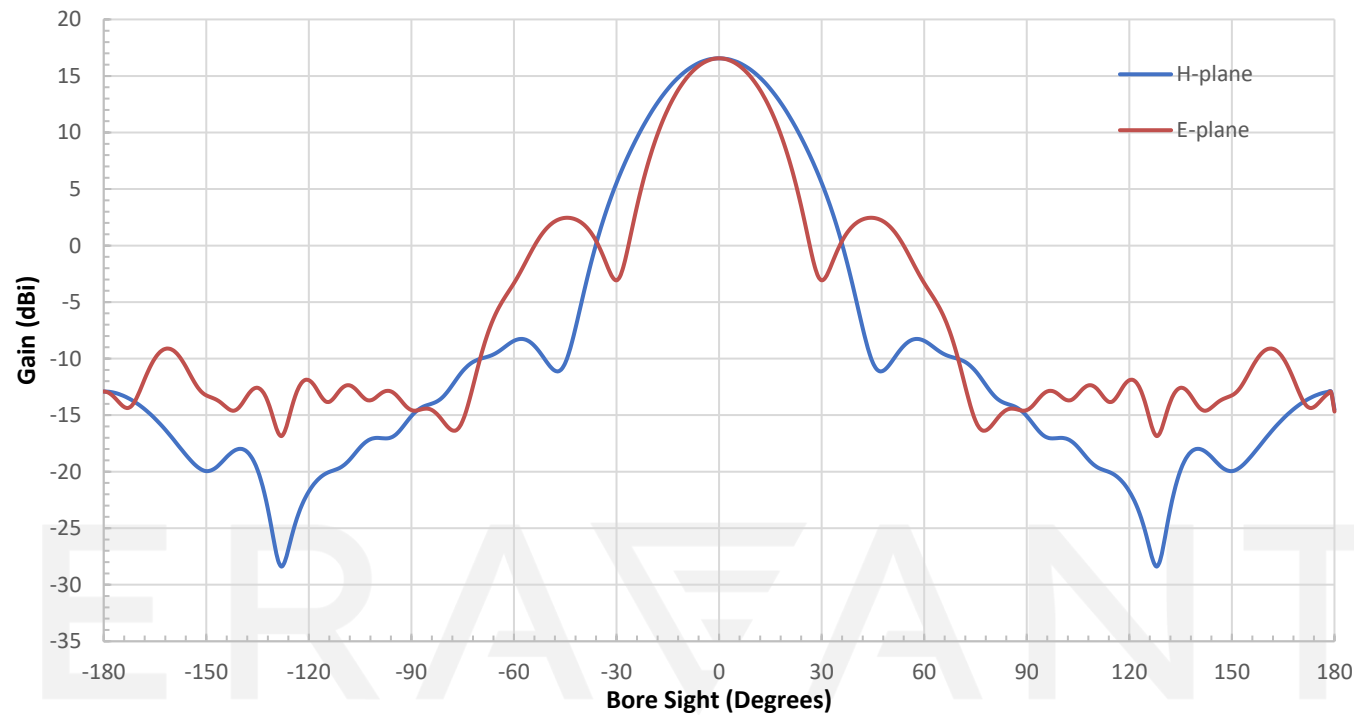


Simulated Antenna Pattern at 12.5 GHz

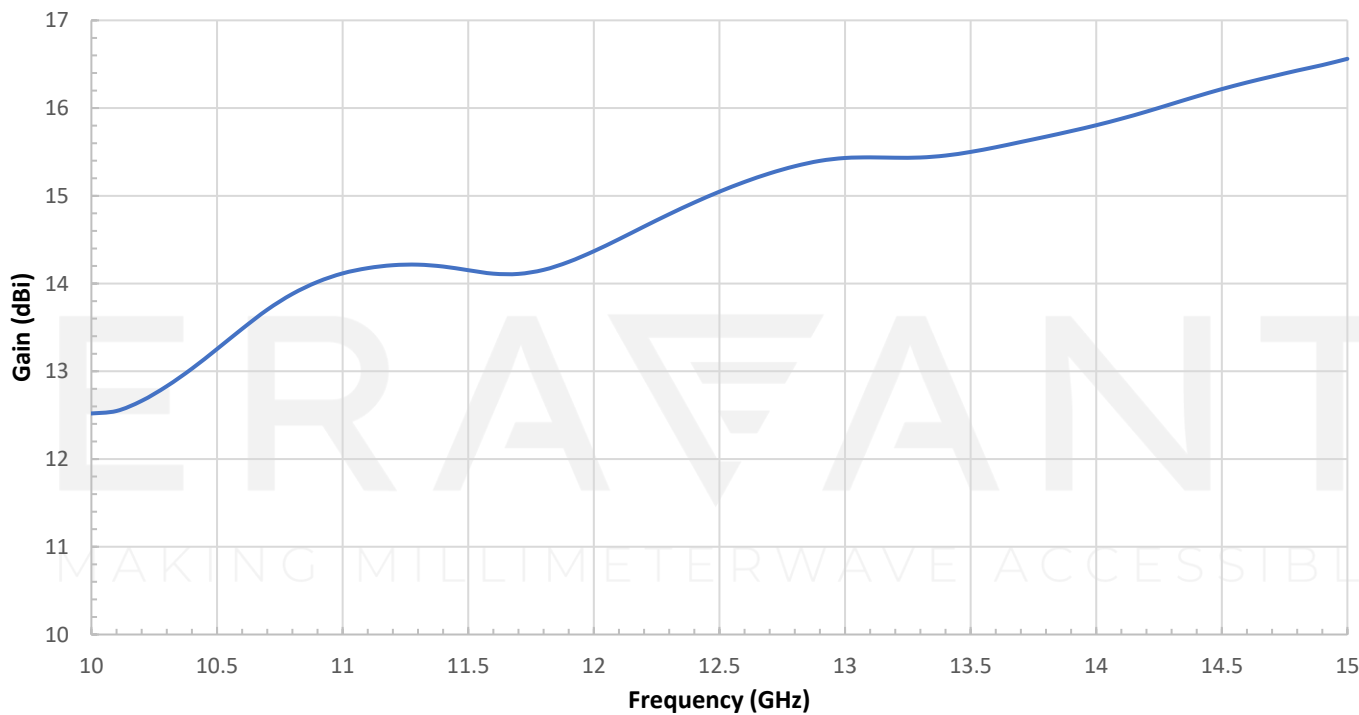


SAR-1532-750-S2

Simulated Antenna Pattern at 15 GHz

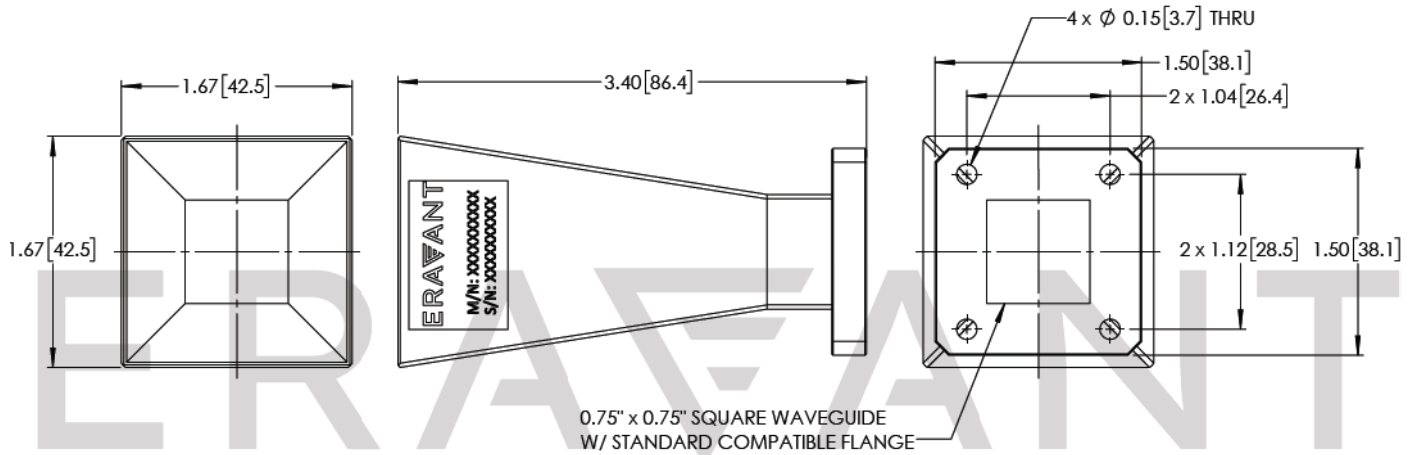


Simulated Gain vs Frequency



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



NOTE:

- This antenna is a mature product. The reasons for only providing simulated data can be found in the following blog [here](#).
- 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.