

WR-62 Pyramidal Horn Antenna, 25 dBi Gain

Description:

Model SAR-2510-62-S3 is a pyramidal horn antenna that operates from 11.9 GHz to 18.0 GHz. The antenna offers 25 dBi nominal gain and a typical half power beamwidth of 9 degrees on the E-plane and 11 degrees on the H-plane. The antenna supports linear polarized waveforms. The input of this antenna is WR-62" waveguide with UG-419/U flange.



Features:

- Inline Configuration
- Linear Polarization
- DC Short Circuit at Input

Applications:

- Antenna Ranges
- Antenna Gain Measurements
- System Setups

Electrical Specifications:

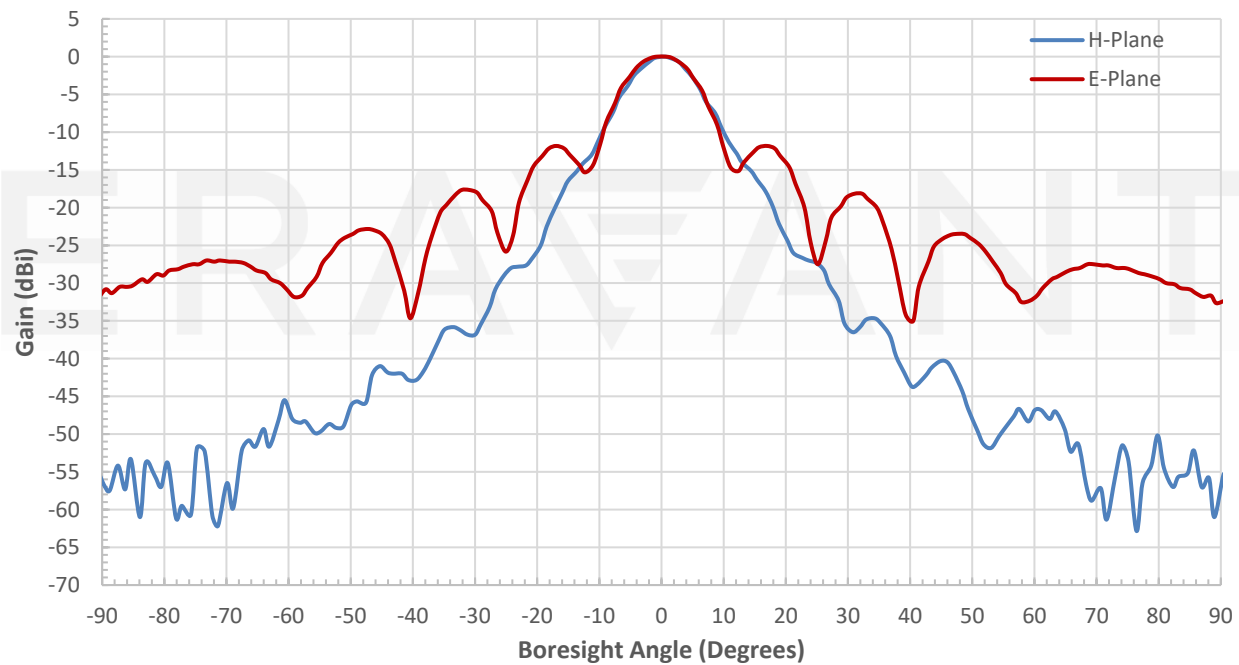
Parameter	Minimum	Typical	Maximum
Frequency	11.9 GHz		18 GHz
Gain		25 dBi	
Polarization		Linear	
3 dB Beamwidth, E-Plane		9°	
3 dB Beamwidth, H-Plane		11°	
Side Lobes, E-Plane		-13 dB	
Side Lobes, H-Plane		-36 dB	
Return Loss		18 dB	

Mechanical Specifications:

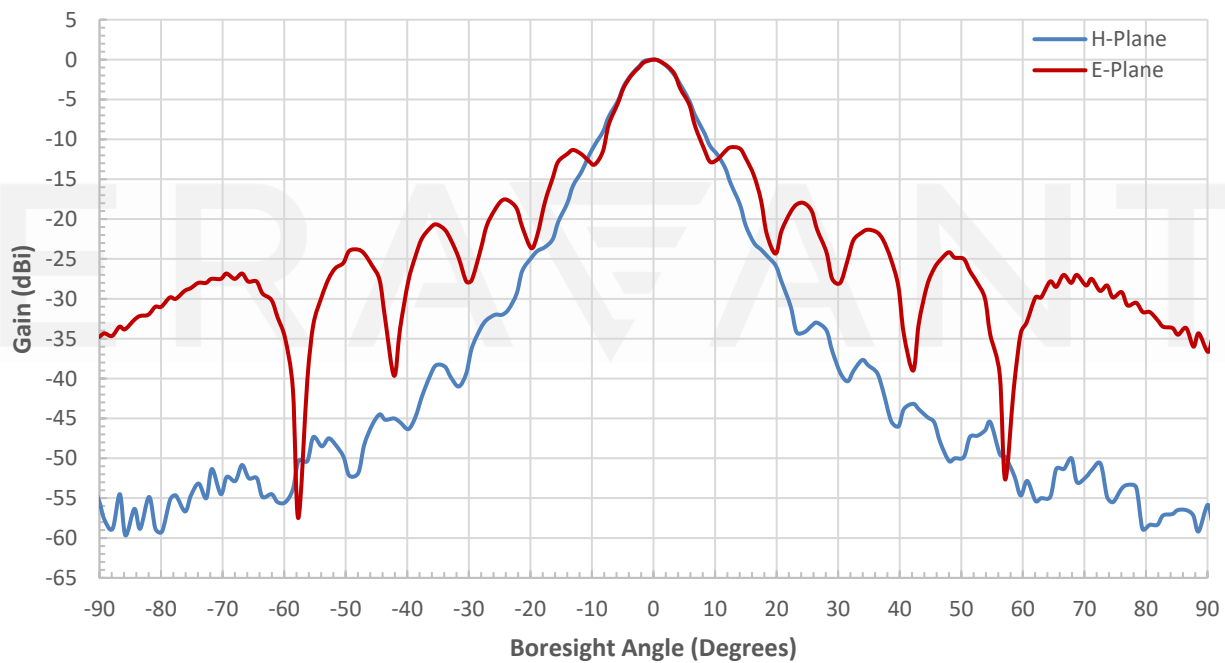
Item	Specification
Antenna Port	WR-62 Waveguide with UG-419/U Flange
Material	Aluminum
Finish	Anti-Corrosion Paint
Weight	2.63 lbs
Outline	AR-63-H1

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Simulated Antenna Patterns @ 11.9 GHz

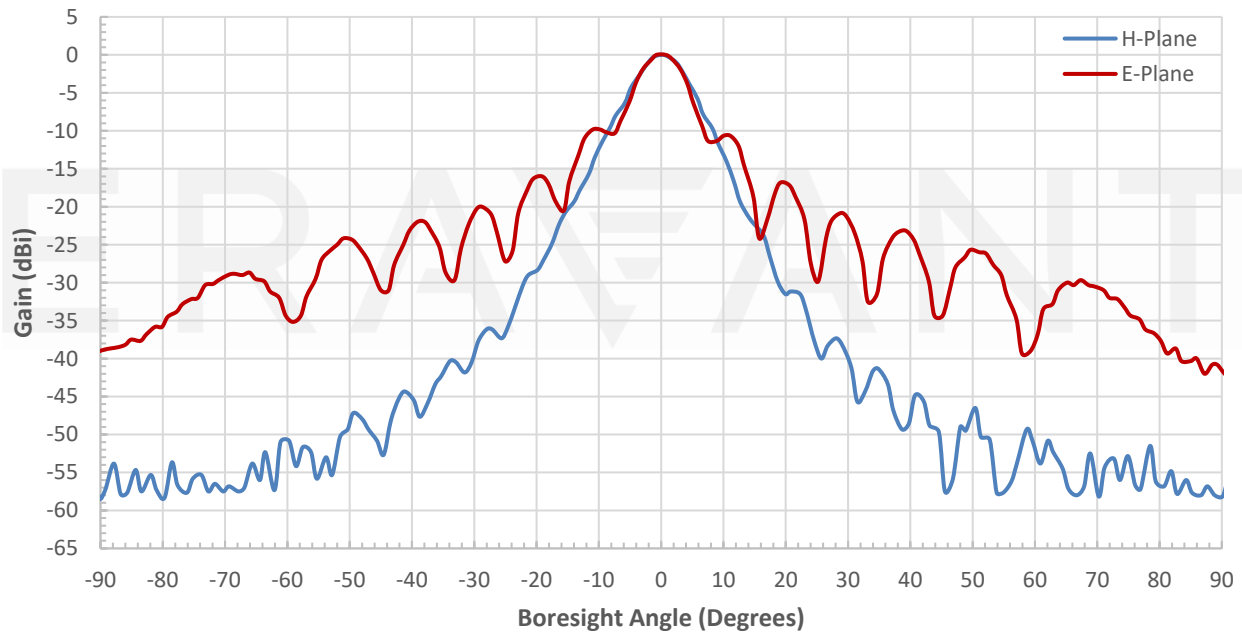


Simulated Antenna Patterns @ 14.95 GHz

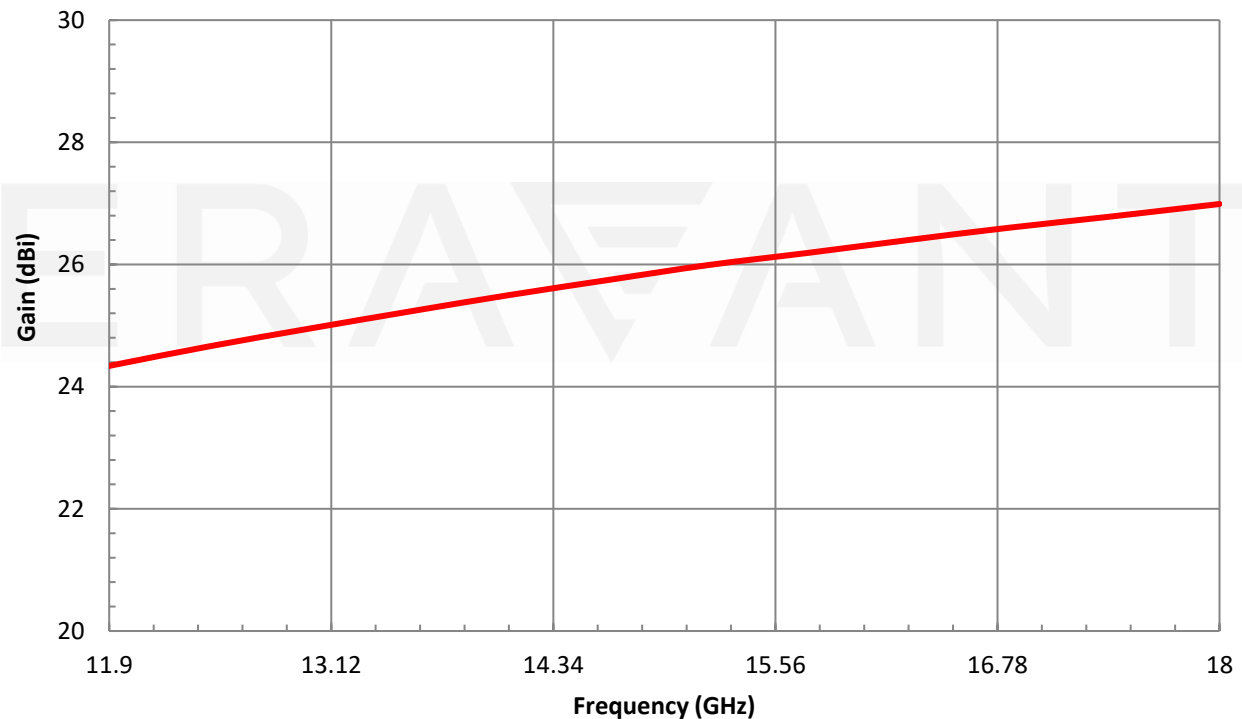


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Simulated Antenna Patterns @ 18 GHz

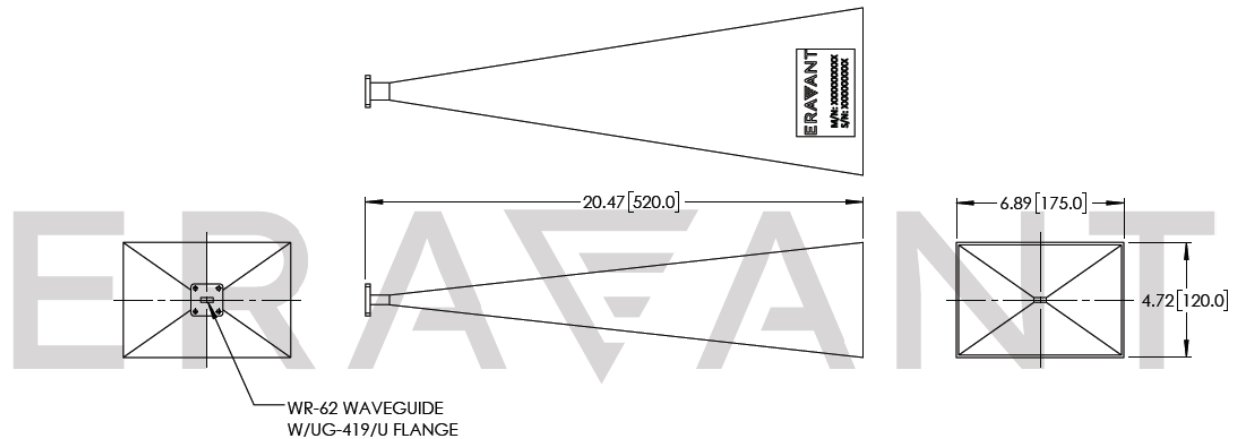


Measured Gain vs. Frequency



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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

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