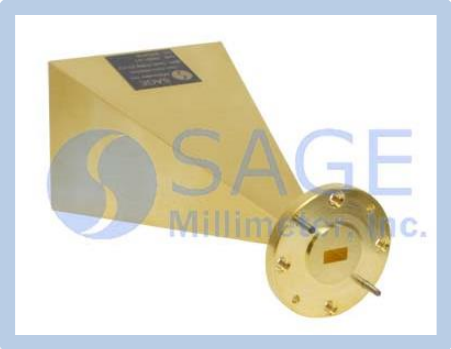
SAR-2507-22-S2-NAC

Rev 1.0

WR-22 Pyramidal Horn Antenna, 25 dBi Gain

Description:



Model SAR-2507-22-S2-NAC is a Q-band pyramidal horn antenna that operates from 33 GHz to 50 GHz. The antenna offers 25 dBi nominal gain and a typical half power beamwidth of 7 degrees on the E-plane and 9 degrees on the H-plane. The antenna supports linear polarized waveforms. The input of this antenna is a WR-22 waveguide with UG-383/U flange.

Features:

- Rectangular Waveguide Interface
- Precisely Machined and Gold Plated
- Linear Polarization
- High Return Loss

Applications:

- Antenna Ranges
- Antenna Gain Measurements
- System Setups

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	33 GHz		50 GHz
Gain	23.5 dBi	25 dBi	26 dBi
Polarization		Linear	
3 dB Beamwidth, E-Plane		7°	
3 dB Beamwidth, H-Plane		9°	
Sidelobes, E-Plane		-14 dB	
Sidelobes, H-Plane		-30 dB	
Return Loss		23 dB	

Mechanical Specifications:

Item	Specification
Antenna Port	WR-22 Waveguide
Flange Type	UG-383/U Flange
Size	5.70” (L) X 2.32” (W) X 1.87”(H)
Material	Aluminum
Finish	Gold Plated
Weight	5.84 Oz
Outline	AR-Q3

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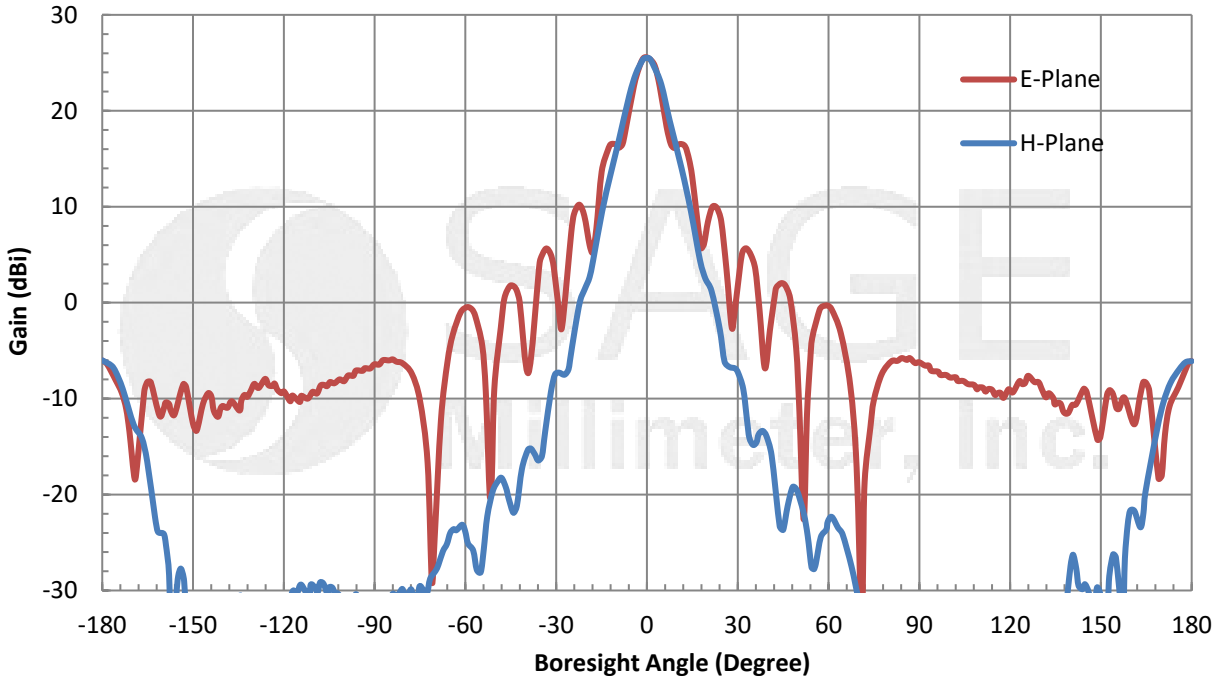
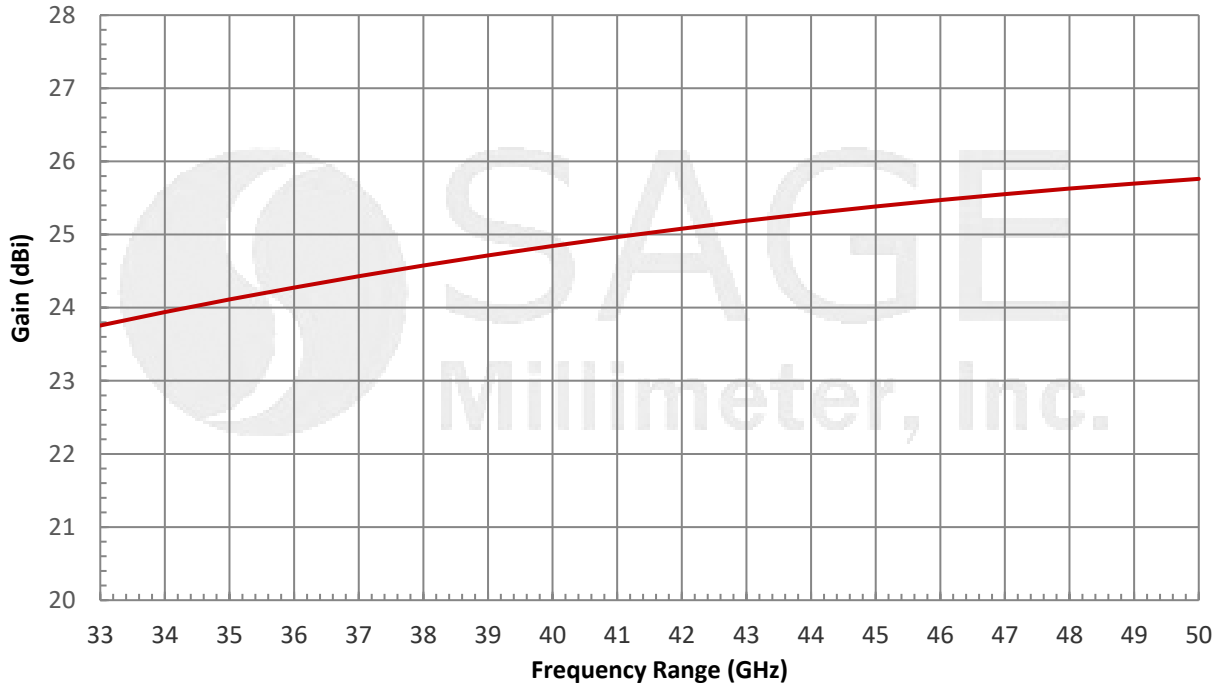
WR-22 Pyramidal Horn Antenna, 25 dBi Gain

Typical Antenna Pattern @ 41.5 GHz



Typical Gain vs. Frequency



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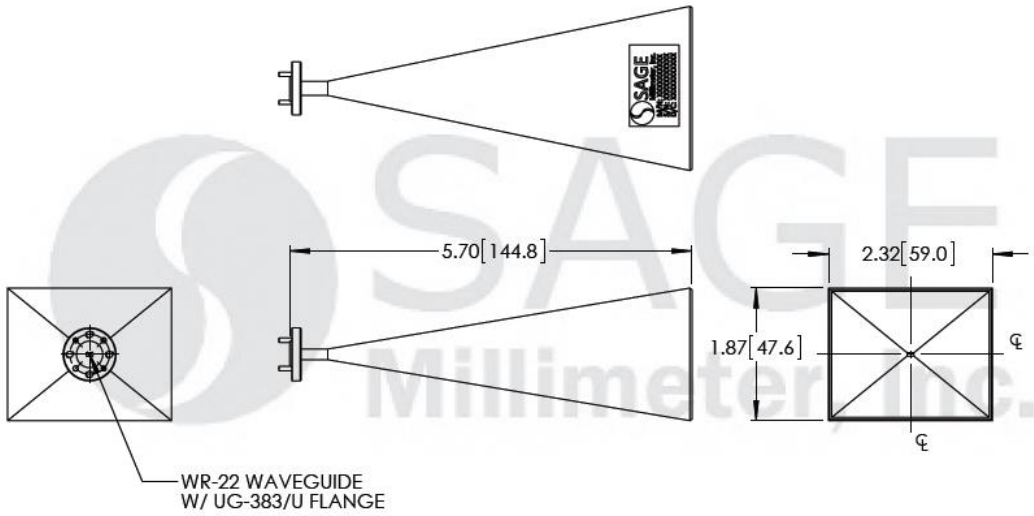
Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Note:

- All data presented are simulated. Actual data may vary unit to unit.
- SAGE Millimeter, Inc. 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.

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