

WR-06 Pyramidal Horn Antenna, 23 dBi Gain

Description:

Model SAR-2309-06-S2 is a D-band pyramidal horn antenna that operates from 110 to 170 GHz. The antenna offers 23 dBi nominal gain and a typical half power beamwidth of 11 degrees on the E-plane and 12 degrees on the H-plane. The antenna supports linear polarized waveforms. The input of this antenna is a WR-06 waveguide with UG-387/U-M 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	110 GHz		170 GHz
Gain		23 dBi	
Polarization	Linear		
3 dB Beamwidth, E-Plane		11°	
3 dB Beamwidth, H-Plane		12°	
Side Lobes, E-Plane		14 dB	
Side Lobes, H-Plane		30 dB	
VSWR		1.15:1	

Mechanical Specifications:

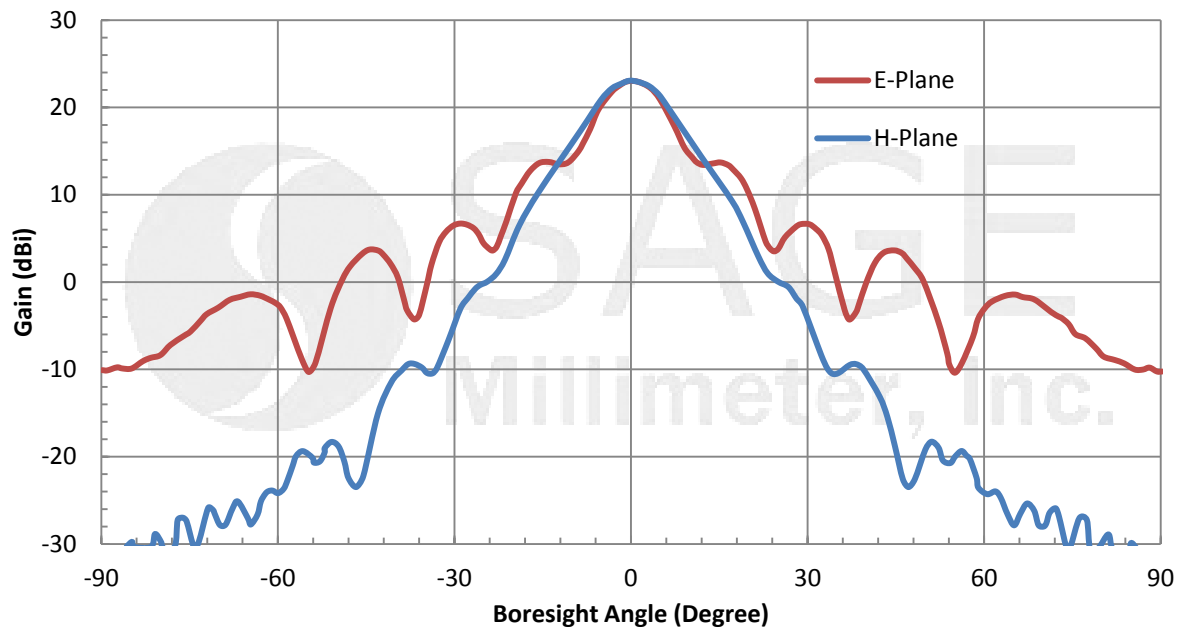
Item	Specification
Antenna Port	WR-06 Waveguide
Flange Type	UG-387/U-M Flange
Size	1.20" (L) X 0.59" (W) X 0.49"(H)
Material	Brass
Finish	Gold Plated
Weight	0.4 Oz
Outline	AR-D2



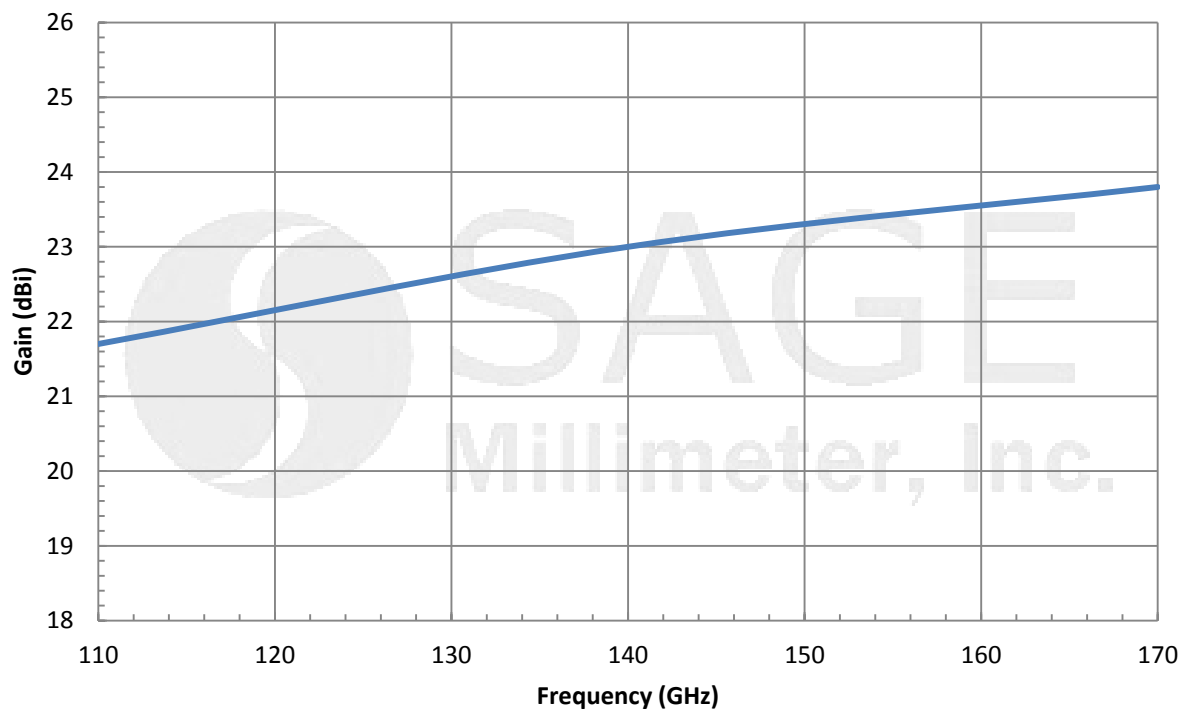


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Typical Antenna Pattern @ 140 GHz

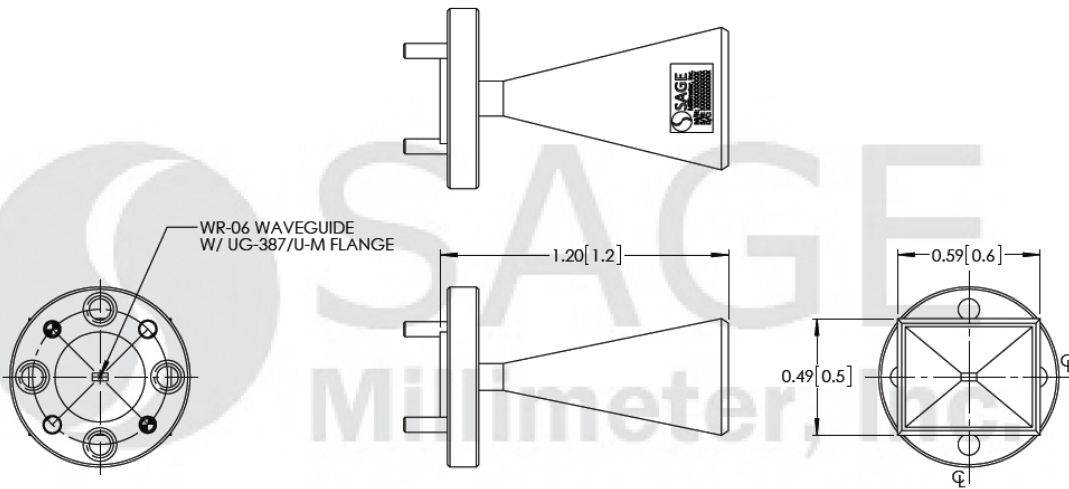


Typical Gain vs. Frequency



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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.

