

WR-28 Pyramidal Horn Antenna, 23 dBi Gain

Description:

Model SAR-2309-28-S2 is a Ka-band pyramidal horn antenna that operates from 26.5 GHz to 40 GHz. The antenna offers 23 dBi nominal gain and a typical half power beamwidth of 10 degrees on the E-plane and 11 degrees on the H-plane. The antenna supports linear polarized waveforms. The input of this antenna is a WR-28 waveguide with UG-599/U flange.



Features:

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

Applications:

- Antenna Ranges
- Antenna Gain Measurements
- System Setups

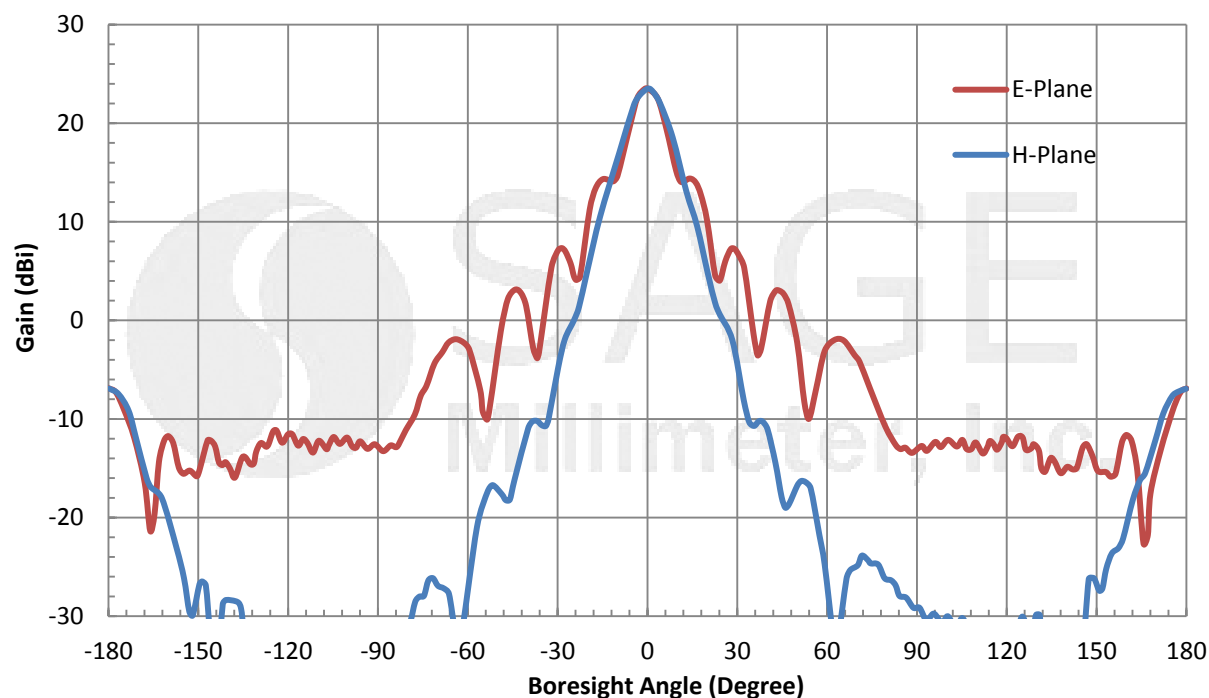
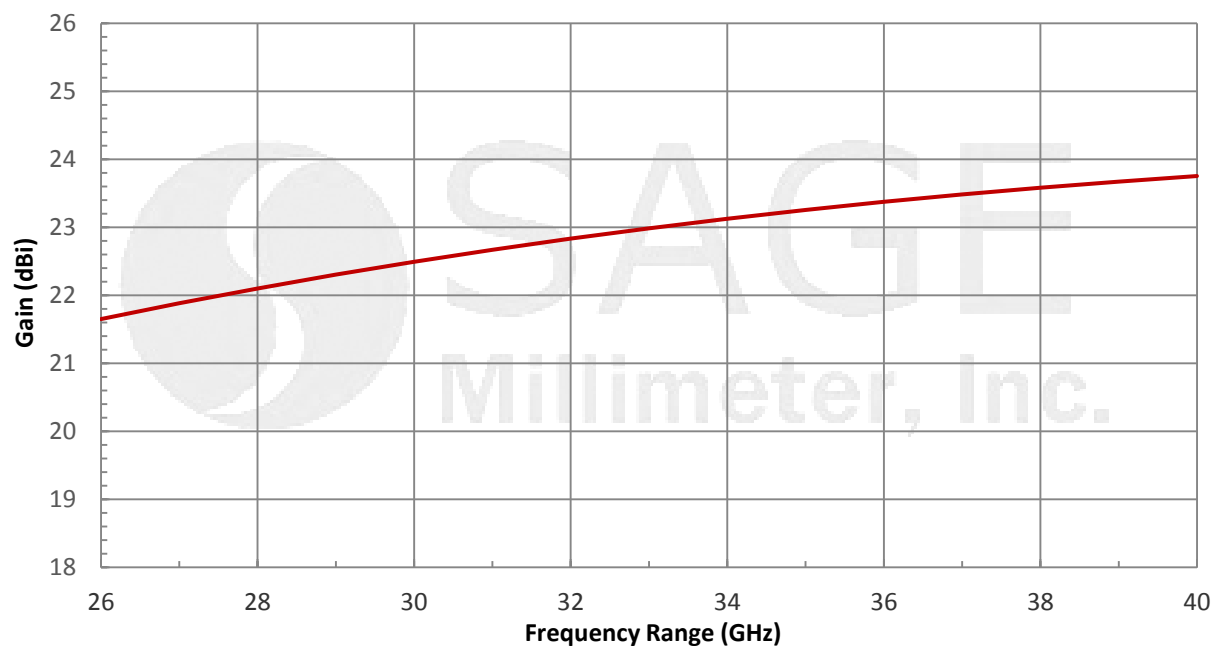
Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	26.5 GHz		40 GHz
Gain	21.5 dBi	23 dBi	24 dBi
Polarization	Linear		
3 dB Beamwidth, E-Plane		10°	
3 dB Beamwidth, H-Plane		11°	
Side Lobes, E-Plane		14 dB	
Side Lobes, H-Plane		30 dB	
VSWR		1.15:1	

Mechanical Specifications:

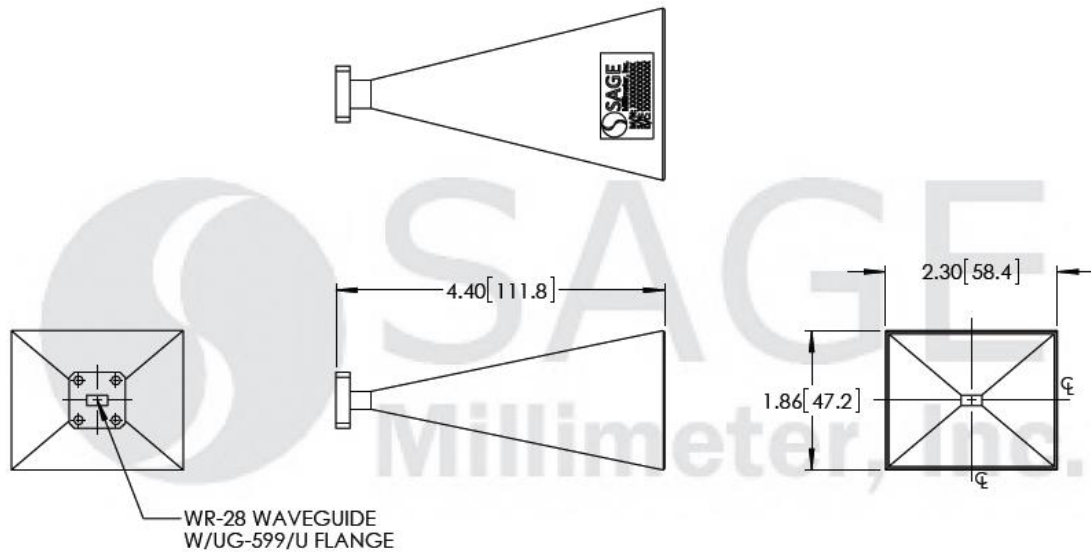
Item	Specification
Antenna Port	WR-28 Waveguide
Flange Type	UG-599/U Flange
Size	4.40" (L) X 2.30" (W) X 1.86" (H)
Material	Aluminum
Finish	Gold Plated
Weight	1.6 Oz
Outline	AR-A2



WR-28 Pyramidal Horn Antenna, 23 dBi Gain**Typical Antenna Pattern @ 33.25 GHz****Typical Gain vs. Frequency**

WR-28 Pyramidal Horn Antenna, 23 dBi Gain

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.