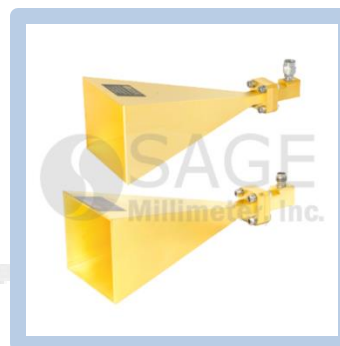


WR-28 Pyramidal Horn Antenna, 25 dBi Gain with K Coax Input

Description:

Model SAR-2507-28KF-R2 is a Ka-band pyramidal horn antenna that operates from 26.5 GHz to 40 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 model with K(M) connector is offered under model number SAR-2507-28KM-R2.



Features:

- Rectangular Waveguide Interface
- Precisely Machined
- 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		25 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		20 dB	
Power Handling			40 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-45 °C		+85 °C

Mechanical Specifications:

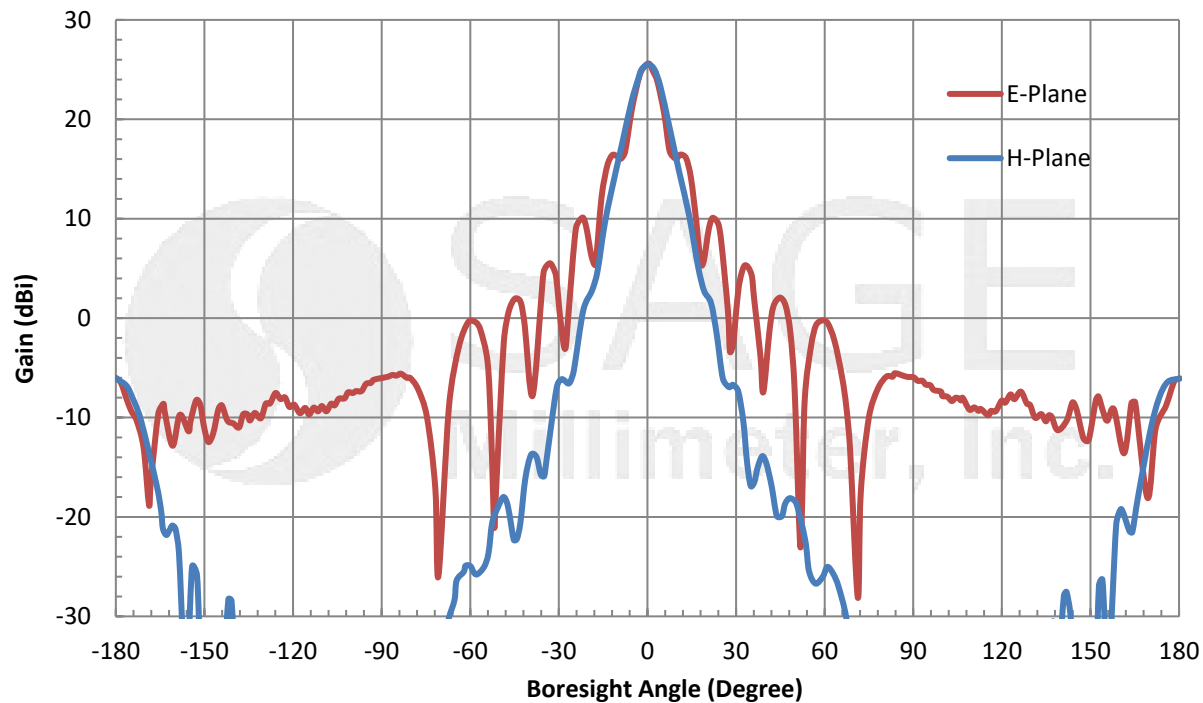
Item	Specification
Antenna Port (F)	K(F) for Model Number: SAR-2507-28KF-R2
Antenna Port (M)	K(M) for Model Number: SAR-2507-28KM-R2
Flange Type	UG-599/U Flange
Size	7.91" (L) X 2.88" (W) X 2.32" (H)
Material	Aluminum
Finish	Gold Plated
Weight	2.9 Oz
Outline	AR-AC3-R



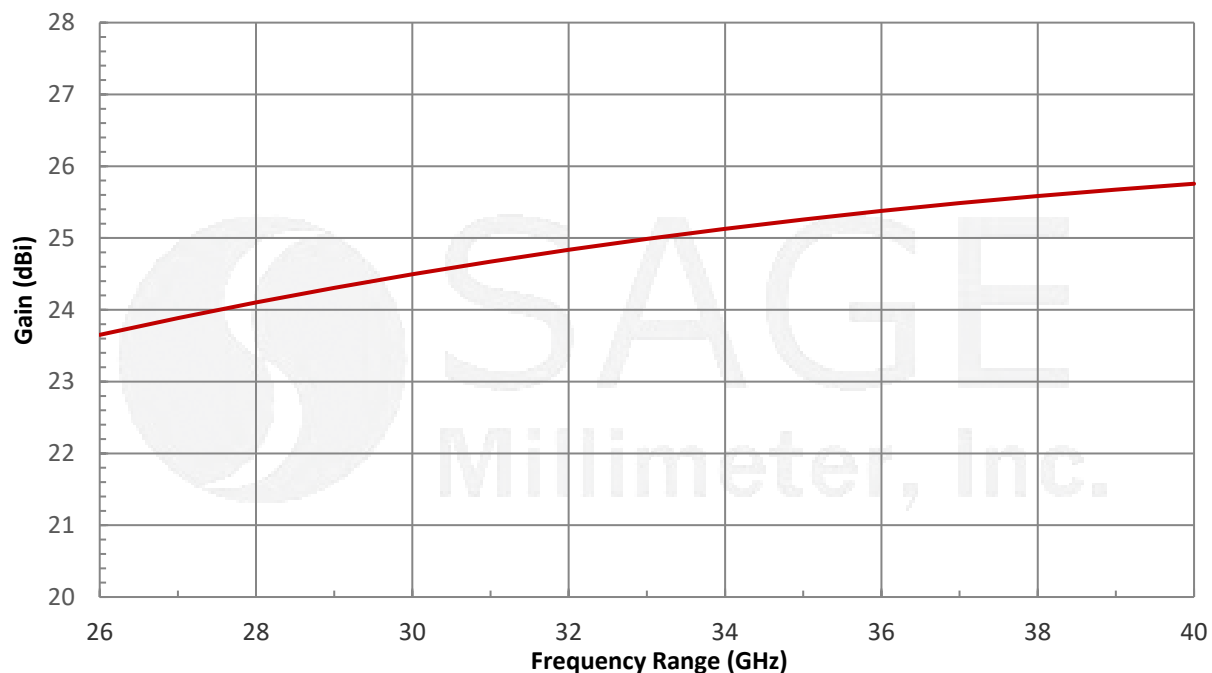


WR-28 Pyramidal Horn Antenna, 25 dBi Gain with K Coax Input

Typical Antenna Pattern @ 33.25 GHz

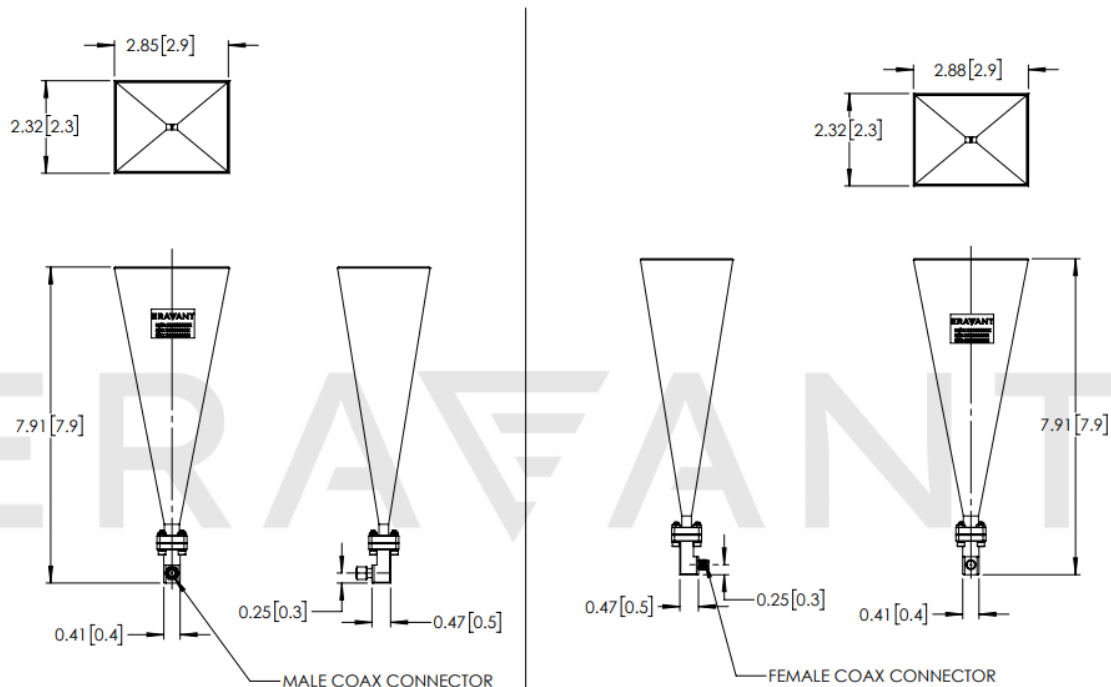


Typical Gain vs. Frequency



WR-28 Pyramidal Horn Antenna, 25 dBi Gain with K Coax Input

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.