

MODEL NUMBER:
HA40G

**WR-28 PYRAMIDAL
HORN ANTENNA, 25 DBI GAIN**

DESCRIPTION:

Model HA40G 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 input of this antenna is a WR-28 waveguide with UG-599/U flange.

FEATURES:

- Rectangular Waveguide Interface
- Precisely Machined
- Linear Polarization
- High Return Loss

APPLICATIONS:

- Antenna Ranges
- Antenna Gain Measurements
- System Setups

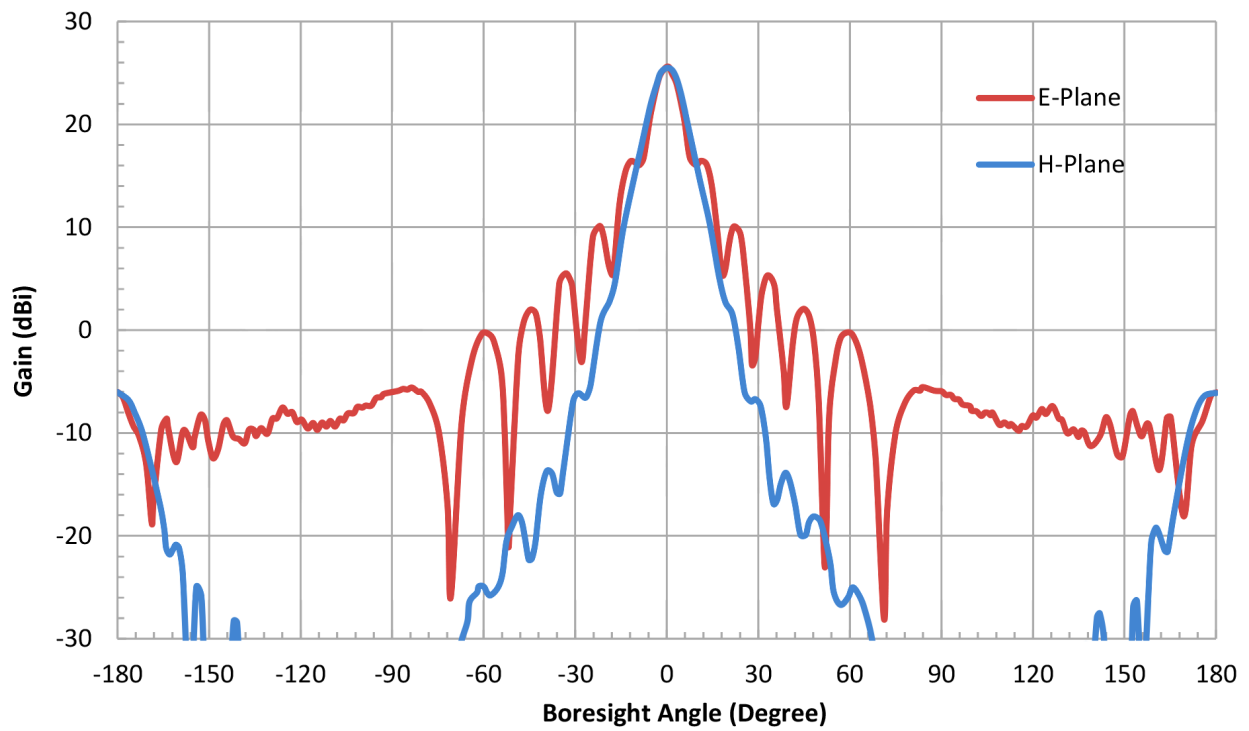
ELECTRICAL SPECIFICATIONS:

PARAMETER	MINIMUM	TYPICAL	MAXIMUM
Frequency	26.5 GHz		40 GHz
Gain	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	
VSWR		1.15:1	

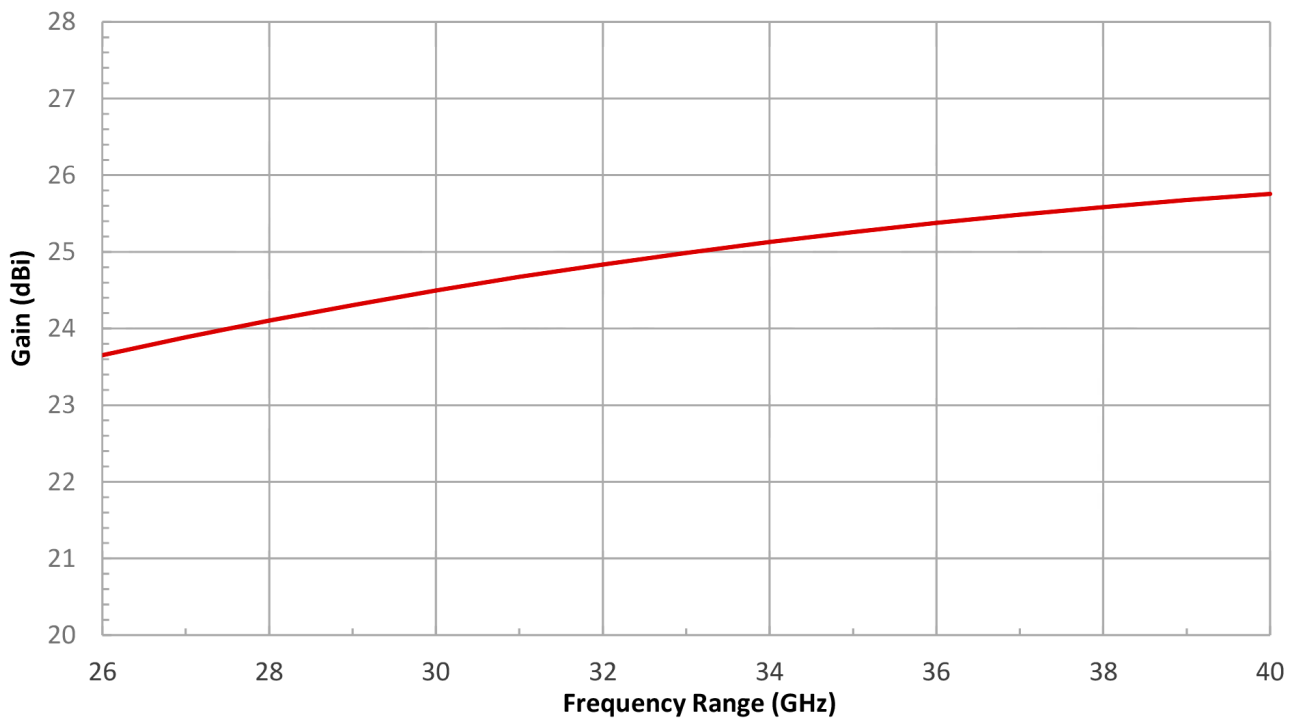
MECHANICAL SPECIFICATIONS:

ITEM	SPECIFICATION
Antenna Port	WR-28 Waveguide
Flange Type	UG-599/U Flange
Size	6.91" (L) X 2.88" (W) X 2.31"(H)
Material	Aluminum
Finish	Gold Plated
Weight	2.1 lbs
Outline	AR-K3-H1

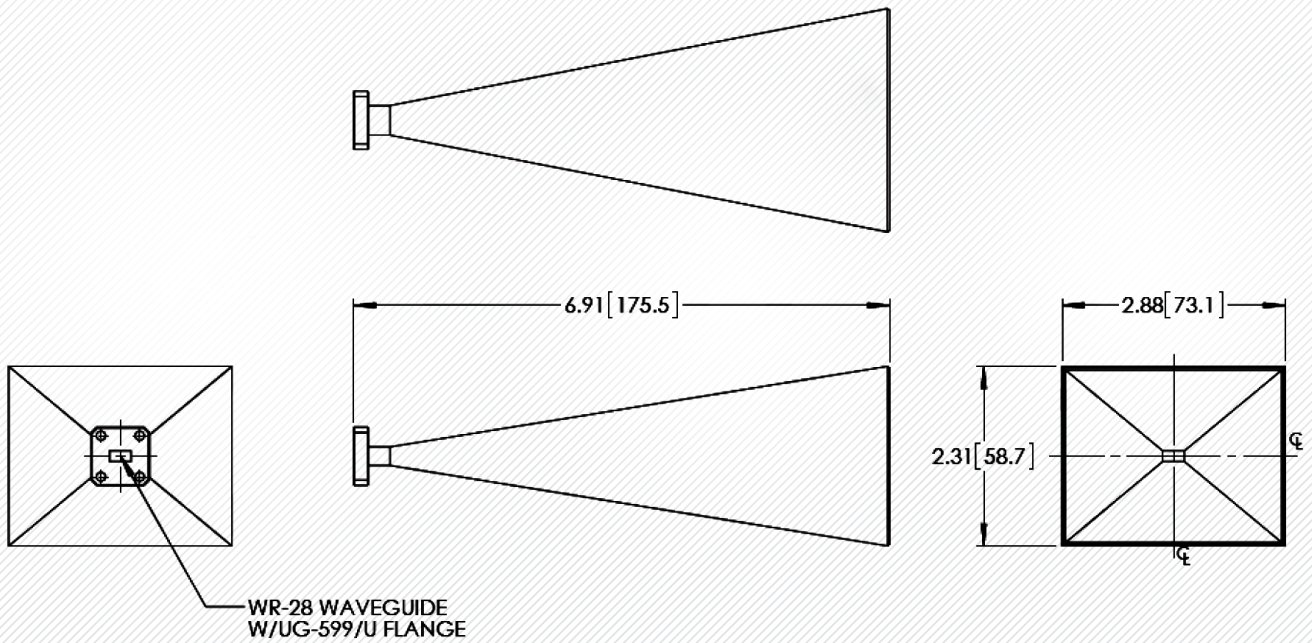
TYPICAL ANTENNA PATTERN @ 33.25 GHZ



TYPICAL GAIN VS. FREQUENCY



MECHANICAL OUTLINE: (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES [MILLIMETERS])



NOTE:

- All data presented are simulated. Actual data may vary unit to unit.
- The EMC Shop, LLC 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.

