



## Ku Band Conical Horn Antenna, 15 to 18 GHz, 17 dBi Gain

### Description:

**Model SAC-1626-660-C2** is an Ku-band conical horn antenna that operates from 15 to 18 GHz. The antenna offers 17 dBi nominal gain and a typical half power beamwidth of 22 degrees on the E-plane and 26.5 degrees on the H-plane. The horn also offers typical sidelobes of -12 dB on the E-plane and -18 dB on the H-plane, respectively. The conical horn can support linear and circular polarization. The input of this antenna is a 0.66" diameter circular waveguide with UG-419/U-M flange.



### Features:

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

### Applications:

- Antenna Ranges
- Feed Horns
- System Setups

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency*	15 GHz		18 GHz
Gain		17 dBi	
3 dB Beamwidth, E-plane		22°	
3 dB Beamwidth, H-plane		26.5°	
Sidelobes, E-plane		-12 dB	
Sidelobes, H-plane		-18 dB	
Return Loss		20 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

\*Note: Can operate from 12 to 18 GHz if the dominant mode is maintained.

### Mechanical Specifications:

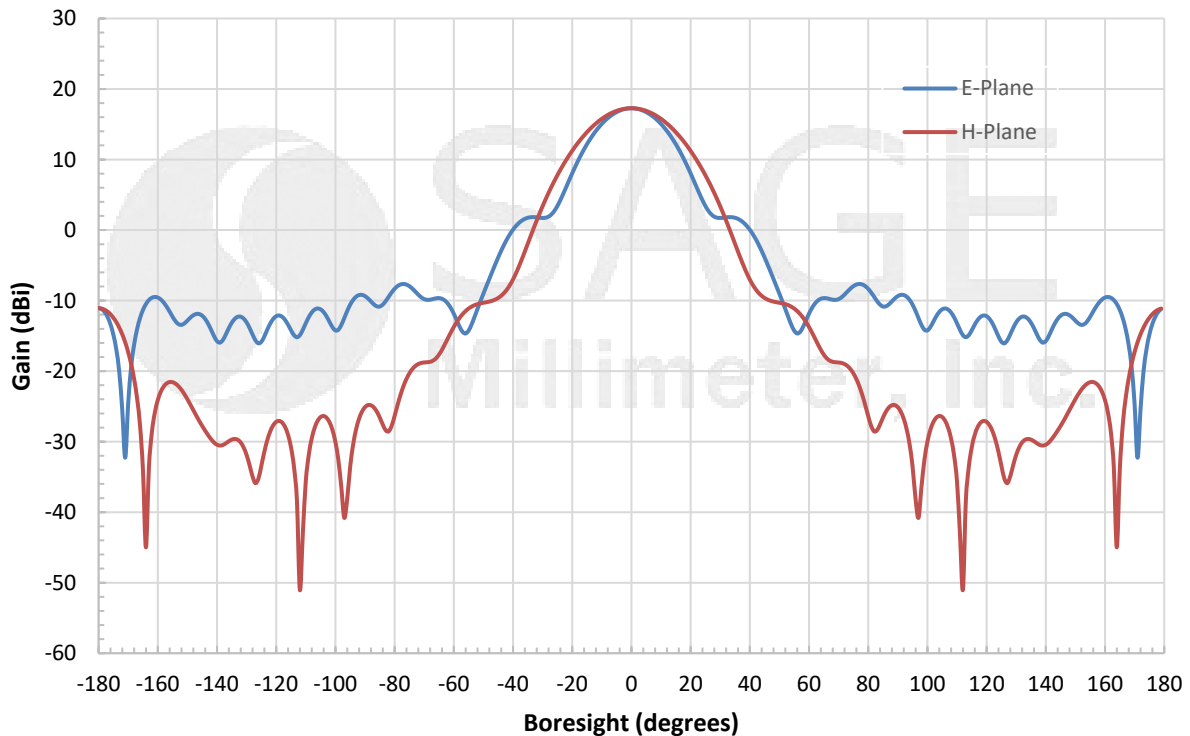
Item	Specification
Antenna Port	0.66" Diameter Circular Waveguide
Flange Type	UG-419/U-M Flange
Material	Aluminum
Finish	Gold Plated
Weight	4 Oz
Size	3" (L) X 2.1" (Ø)
Outline	AC-C617-660



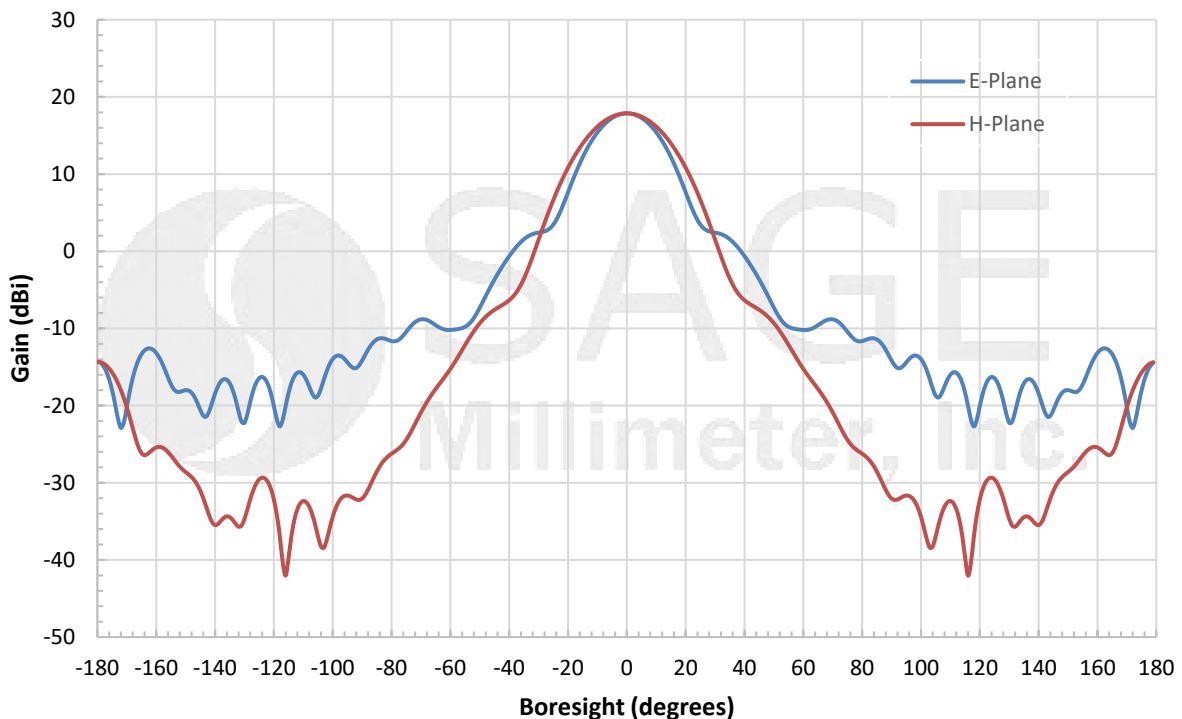


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### Simulated Antenna Patterns @ 15 GHz



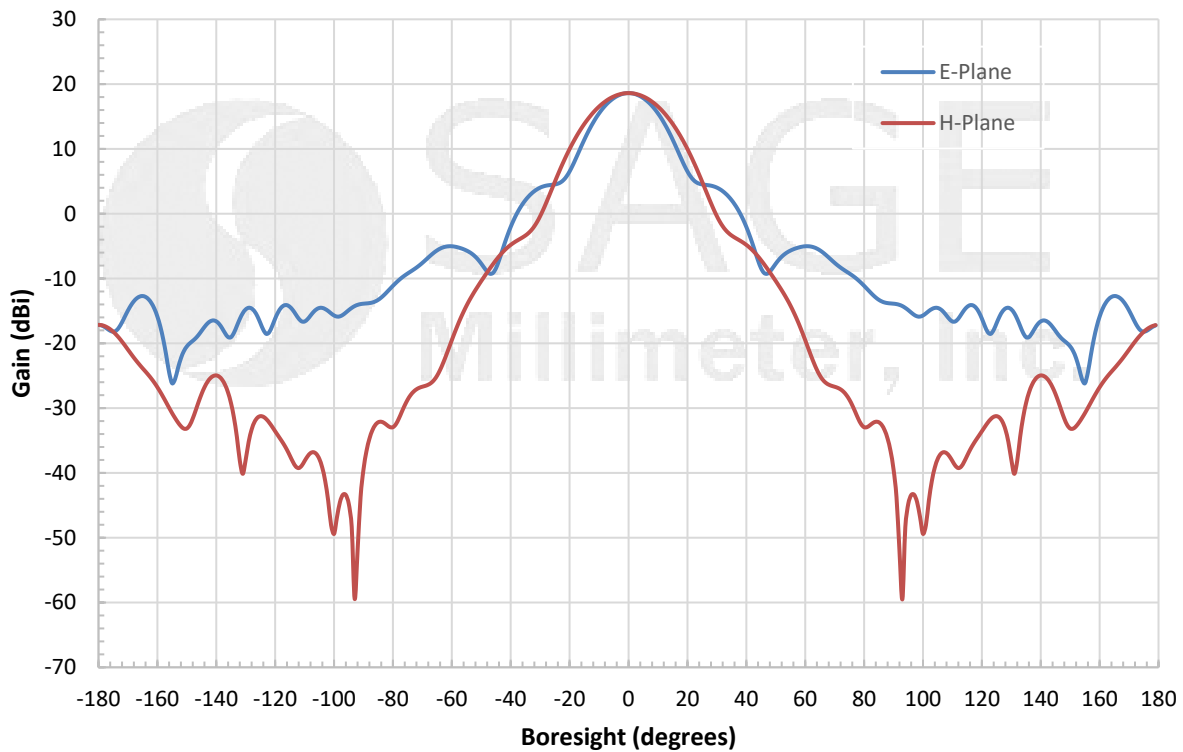
### Simulated Antenna Patterns @ 16.5 GHz



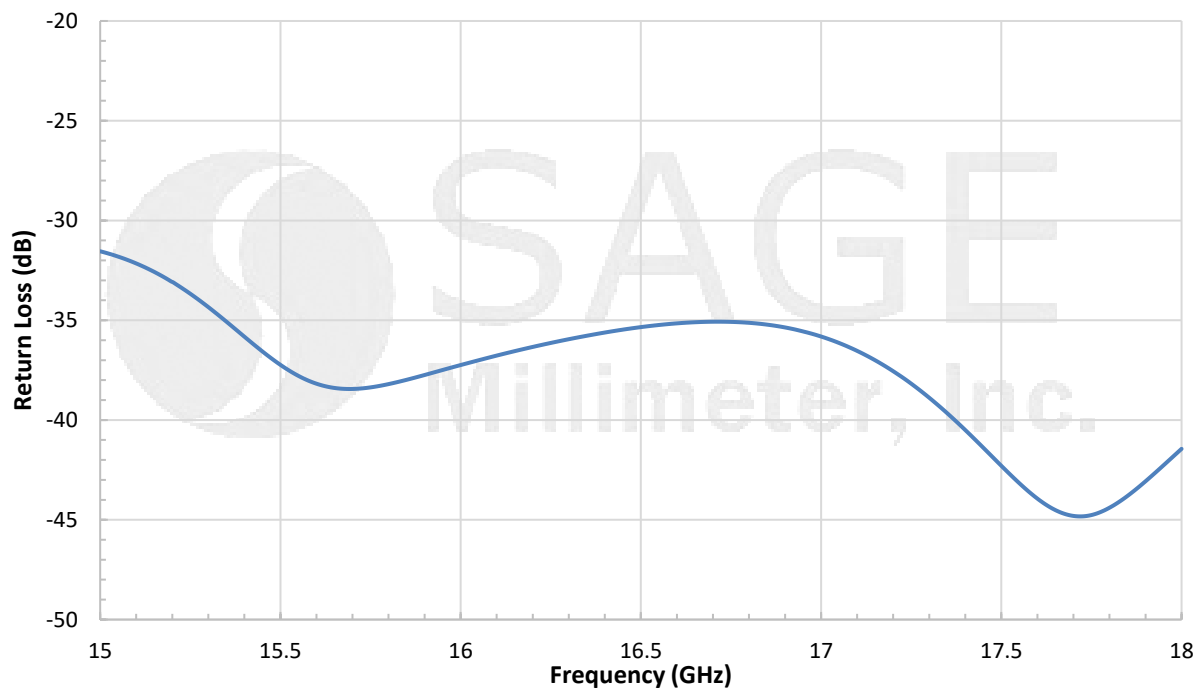


## Ku Band Conical Horn Antenna, 15 to 18 GHz, 17 dBi Gain

### Simulated Antenna Patterns @ 18 GHz



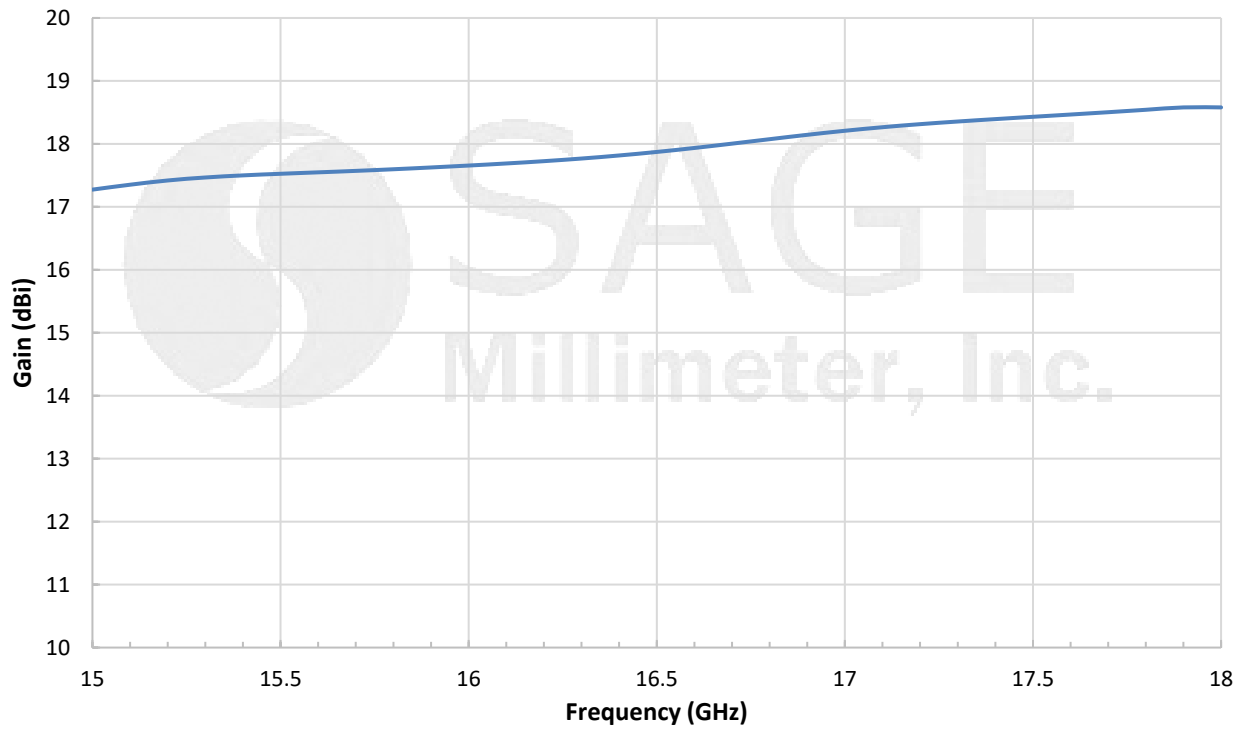
### Simulated Return Loss vs. Frequency



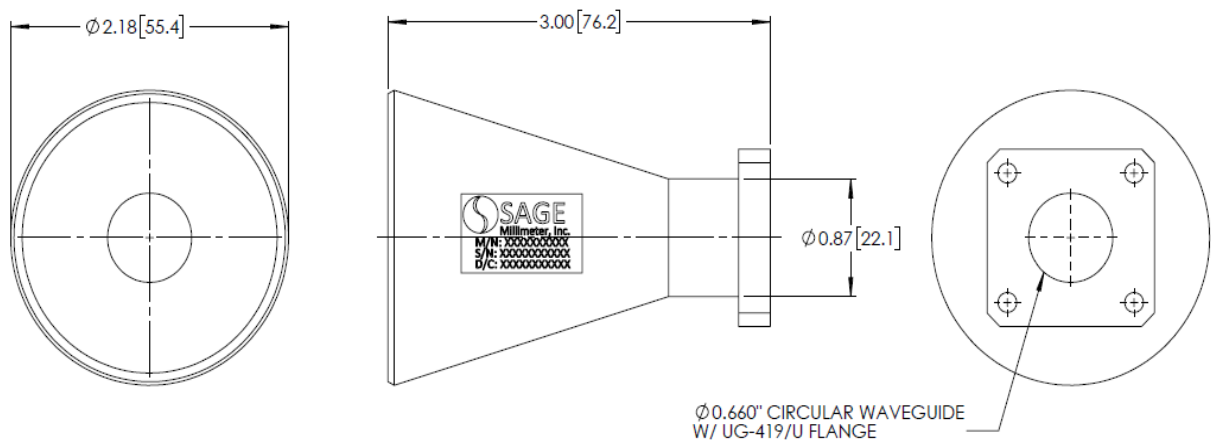


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Simulated Gain vs. Frequency



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





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### 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 antenna will cause performance degradation and possible device damage.

