



## WR-34 Lens Corrected Antenna, 25 to 27 GHz

### Description:

**Model SAL-2532732607-KM-S1** is a WR-34 band, lens corrected antenna that operates from 25 to 27 GHz. At a center frequency of 26 GHz, the antenna delivers 27 dBi nominal gain and 7 degrees typical half power beamwidth. The antenna employs a low loss lens to offer excellent aperture efficiency and low sidelobe levels. The lens corrected antenna is equipped with a male K coaxial connector as its input port. It supports linear polarized waveforms.



### Features:

- Coaxial Interface
- Low Sidelobes
- High Aperture Efficiency

### Applications:

- Radar Systems
- Communication Systems
- Sensor Systems

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	25.0 GHz	26.0 GHz	27.0 GHz
Gain		27 dBi	
3 dB Beamwidth		7°	
Sidelobe Level		-18 dB	
Polarization	Linear		
Return Loss		20 dB	
Specification Temperature		+25 °C	
Operation Temperature	-45 °C		+85 °C

### Mechanical Specifications:

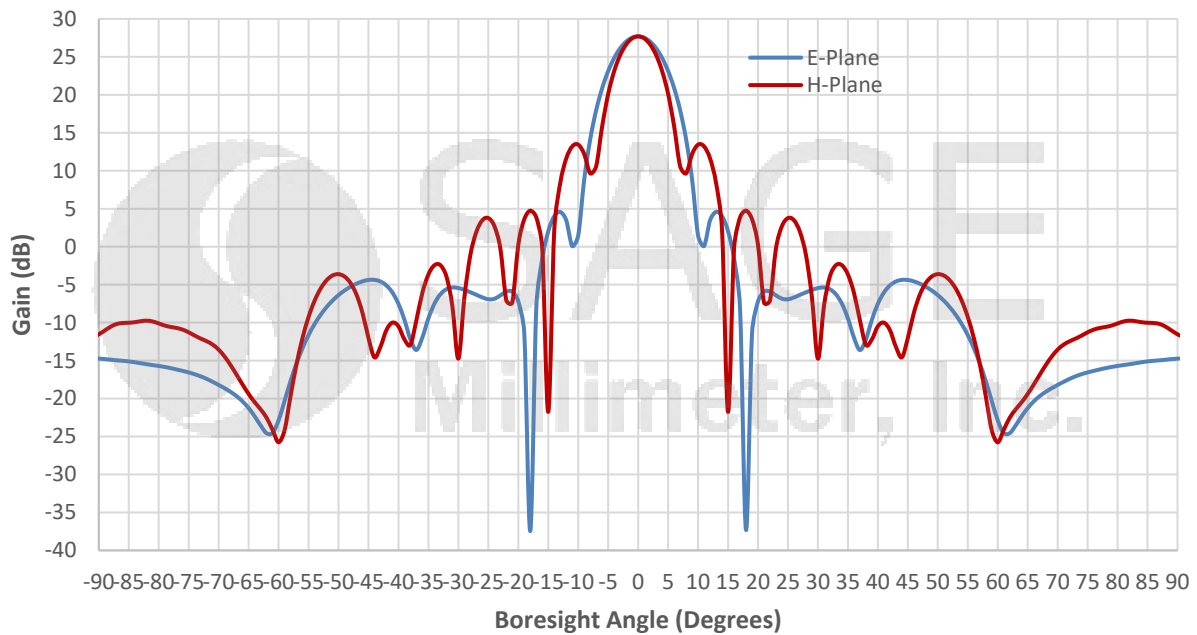
Item	Specification
Antenna Port	K(M) Connector
Lens Diameter	4.5"
Dimensions	4.5" (Ø) x 5.35" (L)
Material	Aluminum
Finish	Gold Chem Film
Weight	10.5 Oz
Outline	AL-TK26



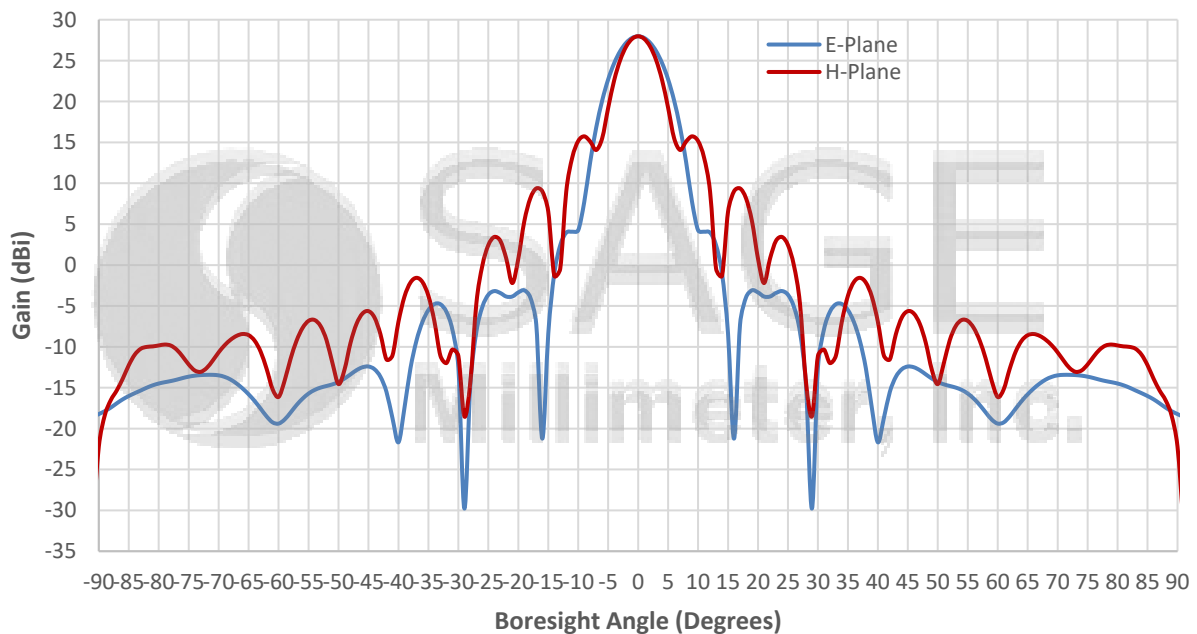


## WR-34 Lens Corrected Antenna, 25 to 27 GHz

### Simulated Patterns @ 25 GHz



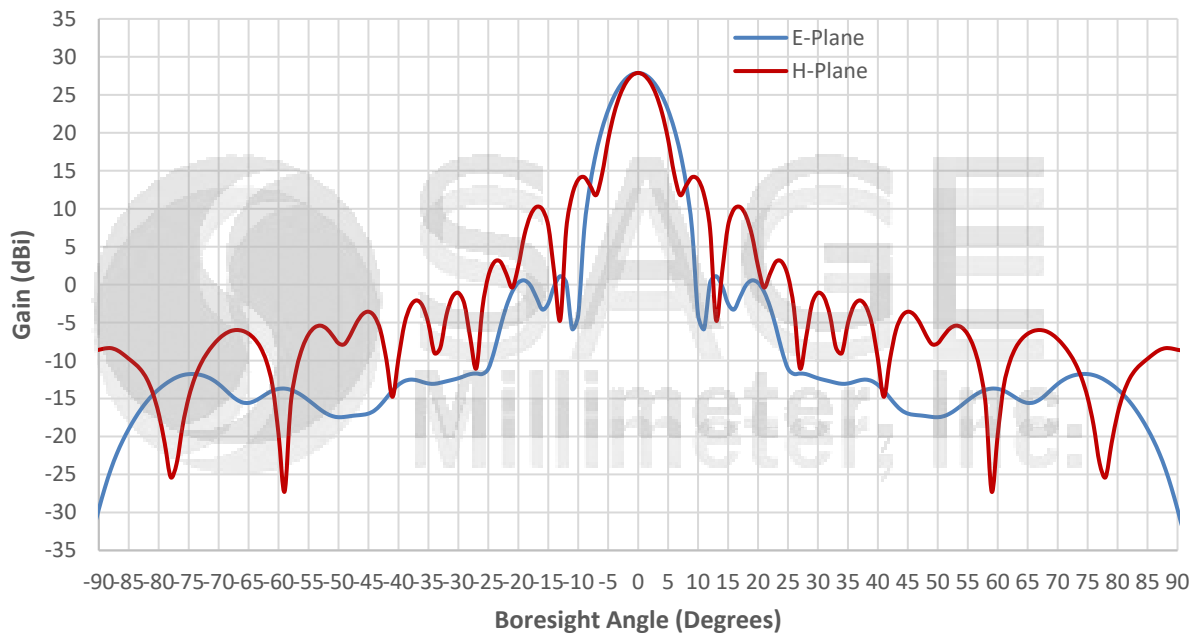
### Simulated Patterns @ 26 GHz



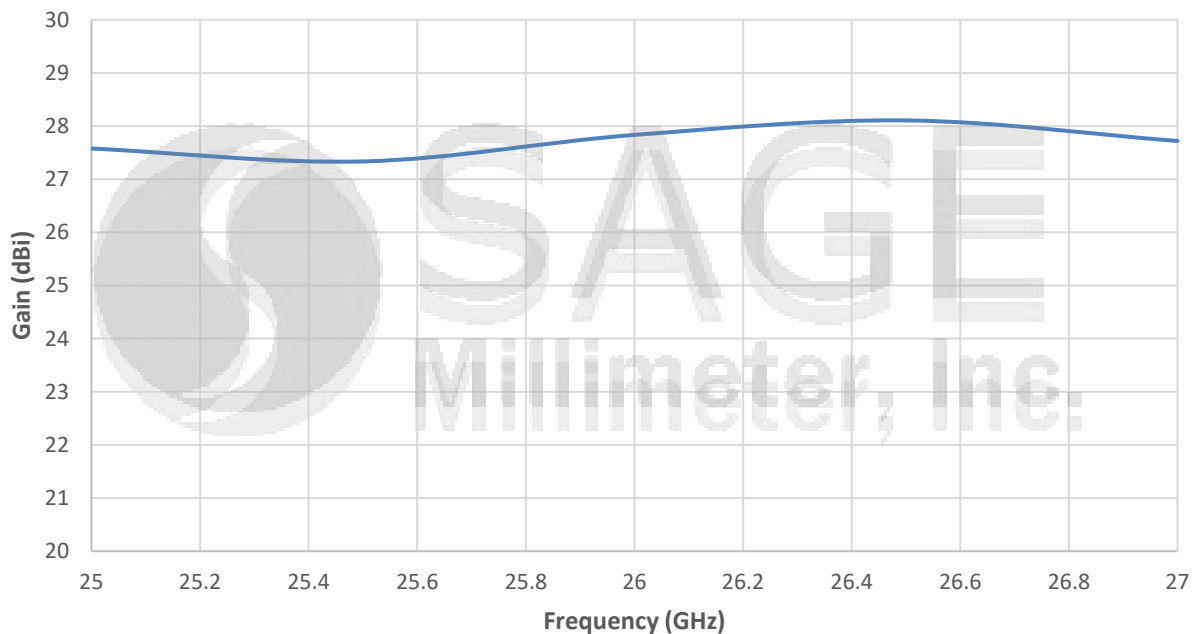


## WR-34 Lens Corrected Antenna, 25 to 27 GHz

### Simulated Patterns @ 27 GHz



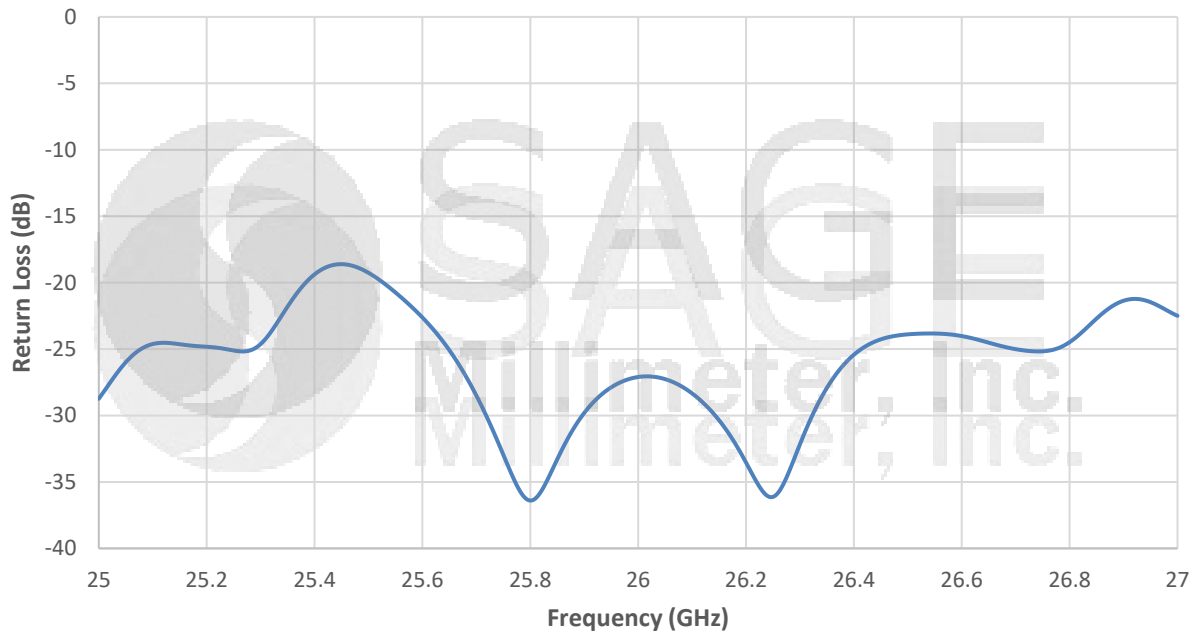
### Simulated Gain vs Frequency



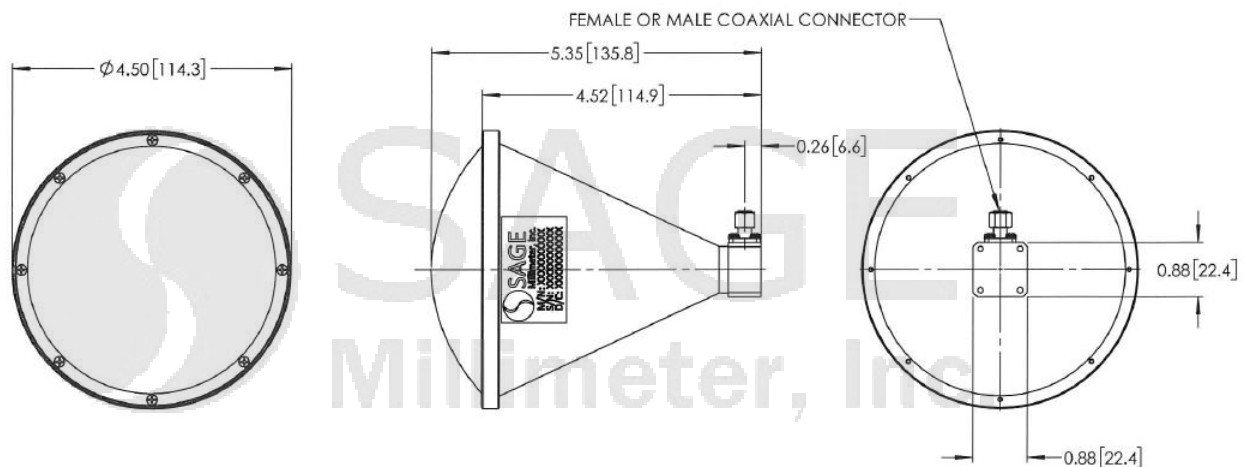


## WR-34 Lens Corrected Antenna, 25 to 27 GHz

### Simulated Return Loss vs Frequency



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



#### Note:

- All data presented is simulated. Actual data may vary unit to unit.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

#### Caution:

- Proper torque,  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**



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