



## Lens Corrected Antenna, 25 to 27 GHz, 27 dB Gain

### Description:

**Model SAL-2532732706-315-S1** is a lens corrected antenna that operates from 25 to 27 GHz. At the frequency of 26 GHz, the antenna delivers 27 dBi nominal gain, 6 degrees E-plane, and 7 degrees H-plane half power beamwidth, respectively. The antenna employs a low loss lens to offer excellent aperture efficiency and low sidelobe levels. The lens corrected antenna is equipped with a 0.315" diameter circular waveguide and UG-1530/U flange as its input port. It supports both linear and circular polarized waveforms.



### Features:

- Center Fed
- Low Sidelobes
- Linear and Circular Polarized Waveforms

### Applications:

- Radar Systems
- Communication Systems
- Sensor Systems

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range*	25 GHz		27 GHz
Gain		27 dBi	
3 dB Beamwidth, E-Plane		6°	
3 dB Beamwidth, H-Plane		7°	
Sidelobes, E-Plane		-18 dB	
Sidelobes, H-Plane		-18 dB	
Polarization	Linear and Circular		
Return Loss		20 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

\*Note: The operating bandwidth can be extended to 25 to 33 GHz.

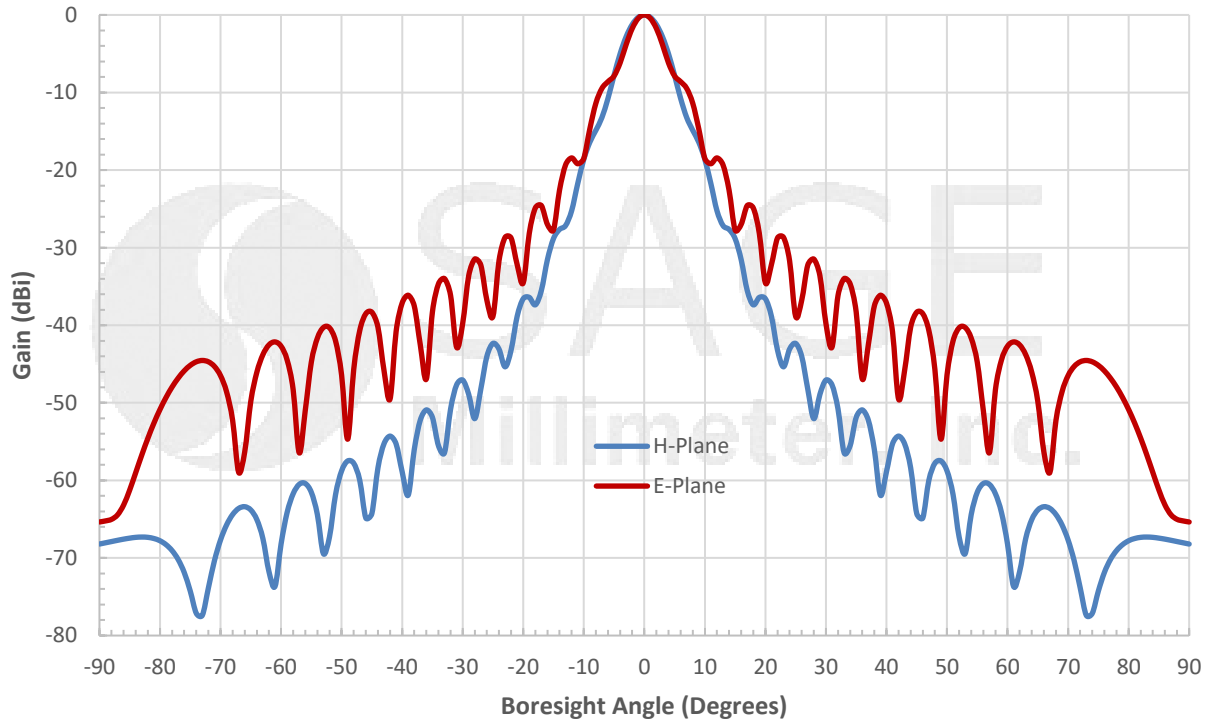
### Mechanical Specifications:

Parameter	Connector
Antenna Port	0.315" Diameter Circular Waveguide with UG-1530/U Flange
Horn Material	Aluminum
Finish	Gold Chem Film
Weight	12 Oz
Lens Diameter	6.5"
Dimensions	5.91" (L) x 6.51" (Ø)
Outline	AL-C327-315

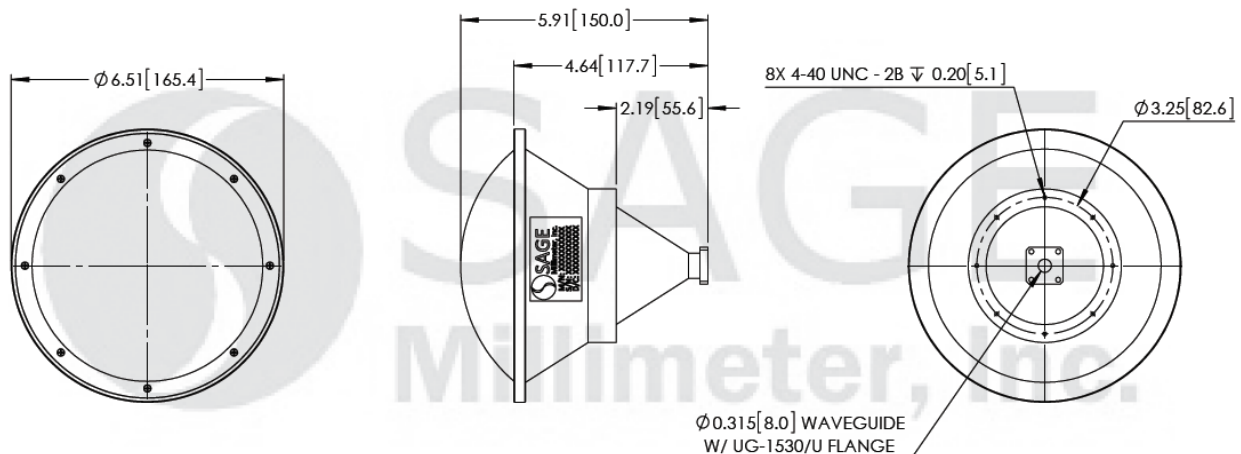


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Typical Antenna Pattern @ 26 GHz



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



**Note:**

- All data presented is simulated. Actual data may vary, slightly.
- SAGE Millimeter, Inc. 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.

