

Lens Corrected Antenna, 30 dB Gain, Rexolite Lens, UG-1530/U Flange

Description:

Model SAL-2532733005-315-S1-1 is a lens corrected antenna that operates from 25 to 27 GHz. At the frequency of 26 GHz, the antenna delivers 30 dBi nominal gain, 4.5 degrees E-plane, and 5.5 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/1530U-M flange as its input port. It supports both linear and circular polarized waveforms.



Features:

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

Applications:

- 5G Systems
- Radar Systems
- Communication Systems
- Sensor Systems

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range*	25 GHz		27 GHz
Gain		30 dB	
3 dB Beamwidth, E-Plane		4.5°	
3 dB Beamwidth, H-Plane		5.5°	
Sidelobes, E-Plane		-12 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:

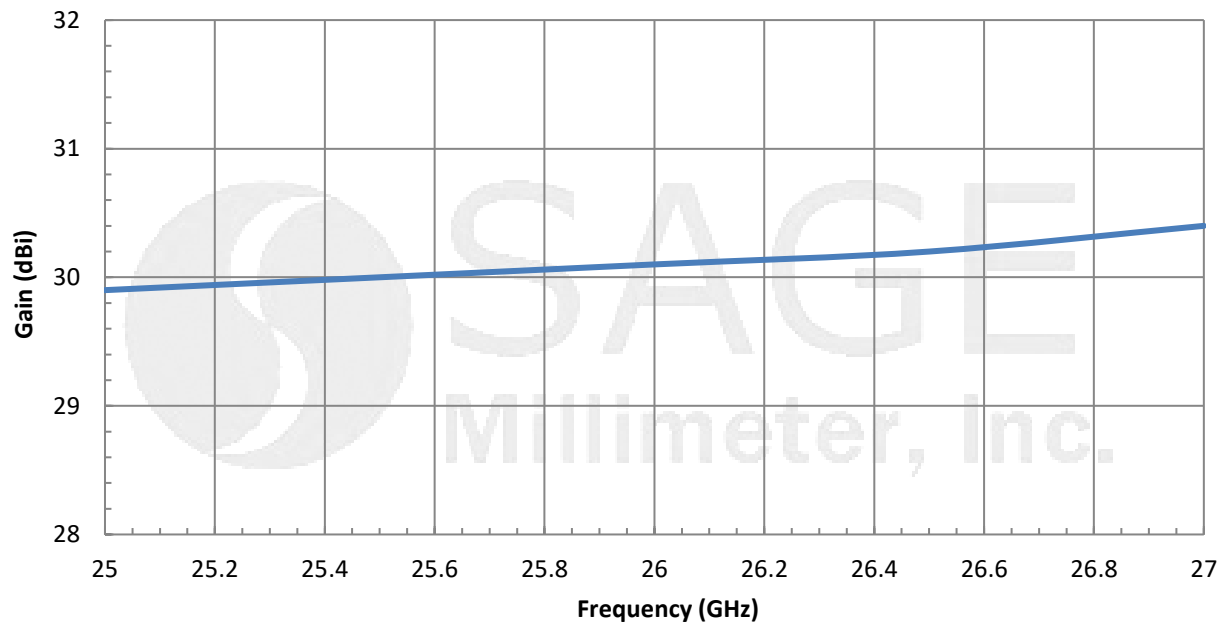
Parameter	Connector
Antenna Port	0.315" Diameter Circular Waveguide with UG/1530U Flange
Lens Diameter	6.0"
Lens Material	Rexolite
Dimensions	7.0" (Ø) x 8.33" (L)
Horn Material	Aluminum
Finish	Gold Chem Film
Weight	13.5 Oz
Outline	AL-C330-315



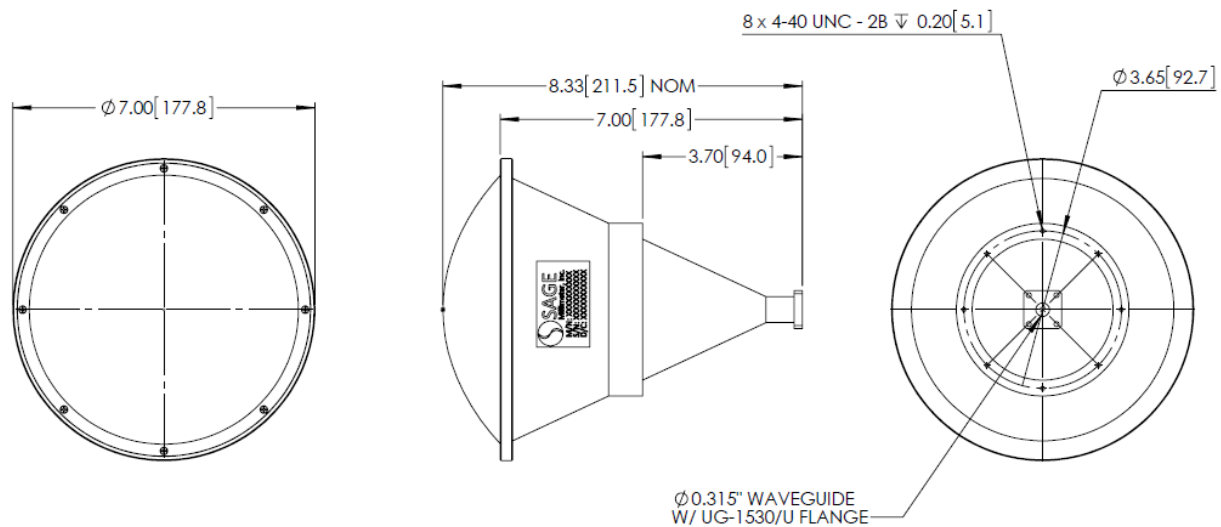
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Typical Gain vs. Frequency



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



Note:

- All data presented is simulated. Actual data may vary.
- 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.



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