

Ka Band Gaussian Optics Antenna, 6" Diameter, 25 to 30 GHz

Description:

Model SAG-2533033005-315-S1 is a 6" Ka-Band Gaussian antenna that operates from 25 to 30 GHz. The Gaussian antenna delivers a 30 dBi nominal gain and 5.0 degree half power beamwidth. The antenna supports both linear and circular polarized waveforms and employs a corrugated feed horn to offer excellent aperture efficiency, high cross polarization rejections, and low sidelobe levels. This model is equipped with a 0.315" diameter circular



waveguide and UG-599/U-M flange as its input port. By adding a mode transition, SAGE Millimeter model number SWT-28315-SB, the input port becomes a standard WR-28 waveguide, which can only support linear polarized waveforms.

Features:

- Center Fed
- Low Sidelobes
- Low Cross Polarization

Applications:

- Radar Systems
- Communication Systems
- Plasma Systems

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	25 GHz		30 GHz
Gain		30 dBi	
3 dB Beamwidth		5.0°	
Sidelobes		-25 dB	-20 dB
Cross Polarization		-20 dB	
Polarization		Linear and Circular	
Return Loss		14 dB	F 1
Specification Temperature		+25°C	
Operating Temperature	-40°C	The same of	+85°C

Mechanical Specifications:

Item	Specification	
Antenna Port	0.315" Dia Circular Waveguide with UG-599/U-M Flange	
Lens Diameter	6.0"	
Housing Material	Aluminum	
Housing Finish	Black Anodized	
Weight	7.4 lbs	
Size	7.00" (Ø) x 9.2" (L)	
Outline	AG-CA30-315	

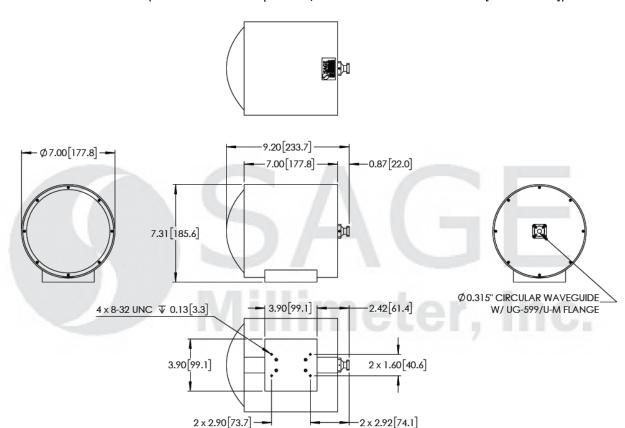


www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com



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



Note:

- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.
- The operation frequency of the antenna can be extended to a wider range with small performance degradation at the edges of the band.

Caution:

Foreign objects in the waveguide will affect device performance and may damage the antenna.



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