



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	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+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



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