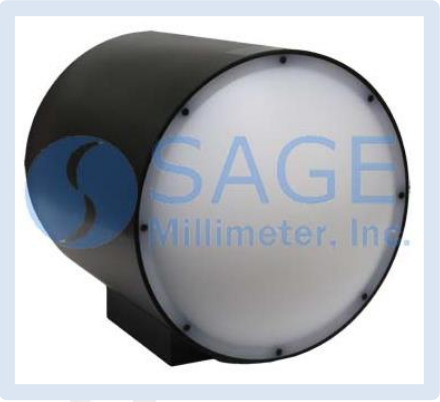
SAG-2032532806-42-S1

Advanced

K Band Gaussian Optics Antenna, 20 to 24.5 GHz, 6.2 Degree

Description:



Model SAG-2032532806-42-S1 is a 6" K-Band Gaussian antenna that operates from 20 to 24.5 GHz. The Gaussian antenna delivers a 28 dBi nominal gain and 6.2 degree half power beamwidth. The antenna supports linear 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 WR-42 waveguide and UG-595/U flange as its input port. By removing the mode transition, SAGE Millimeter model number SWT-42396-SB, the input port becomes a 0.396" circular waveguide, which can support both circular and 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	20 GHz		24.5 GHz
Gain		28 dBi	
3 dB Beamwidth		6.2	
Sidelobes		-25 dB	-20 dB
Cross Polarization		-20 dB	
Polarization	Linear		
Return Loss		20 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

*Note: Can operate from 18 to 26.5 GHz if the dominant model is maintained and slight performance degradation is allowed.

Mechanical Specifications:

Item	Specification
Antenna Port	WR-42 Waveguide with UG-595/U Flange
Material	Aluminum
Finish	Black Anodized
Weight	7.3 lb
Lens Diameter	6.0"
Dimensions	7.31" (H) x 9.46" (L)
Outline	AG-RK28

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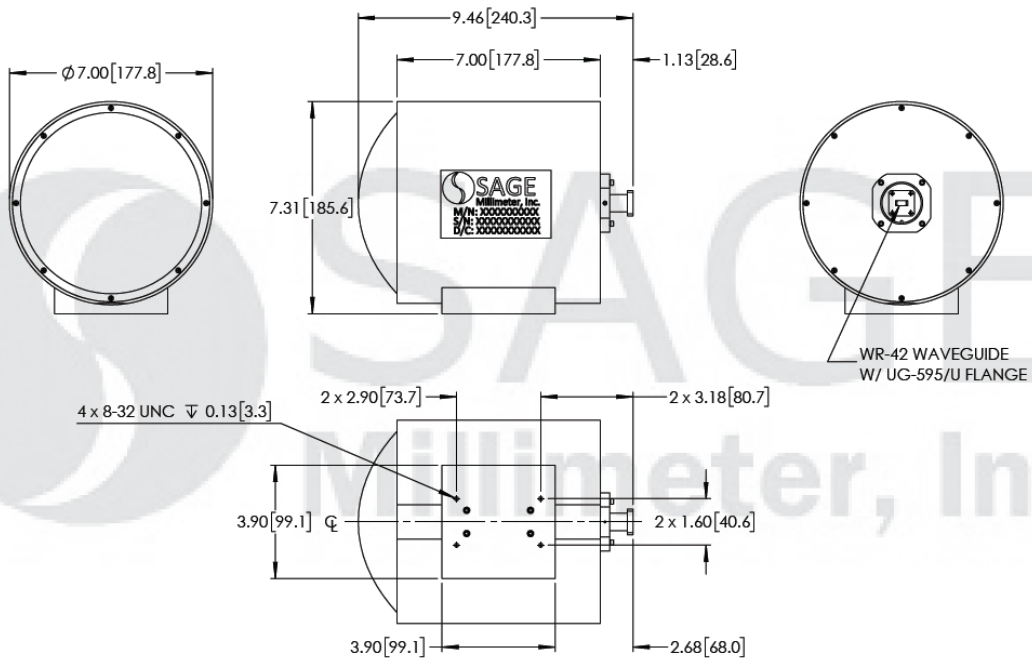
Mechanical Outline: (Unless otherwise specified, all dimensions are in inches)



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:

- Any foreign objects in the waveguide will cause performance degradation and possible device damage.

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