



Ka Band Gaussian Optics Antenna, 32 to 40 GHz, 38 dBi Gain

Description:

Model SAG-3234033802-28-S1 is a 12" Ka-Band Gaussian antenna that operates from 32 to 40 GHz. The Gaussian antenna delivers a 38 dBi nominal gain and 1.9 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 standard WR-28 waveguide and UG-599/U flange as its input port. By removing the mode transition, SAGE Millimeter model number SWT-28250-SB, the input port becomes a 0.250" diameter circular waveguide, which can support both linear and circular polarized waveforms.



Features:

- Center Fed
- Low Sidelobes
- Low Cross Polarization

Applications:

- Radar Systems
- Communication Systems
- Plasma Systems

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency*	32 GHz		40 GHz
Gain		38 dBi	
3 dB Beamwidth		1.9°	
Sidelobes		-25 dB	-20 dB
Cross Polarization		-20 dB	
Polarization		Linear	
Return Loss		14 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

*Note: This model can cover the frequency range of 30 to 40 GHz.

Mechanical Specifications:

Item	Specification
Antenna Port	WR-28 Waveguide with UG-599/U Flange
Lens Diameter	12.0"
Dimensions	13.0" (Ø) x 17.6" (L)
Material	Aluminum
Finish	Black Anodized
Weight	19.5 lb
Outline	AG-RA38

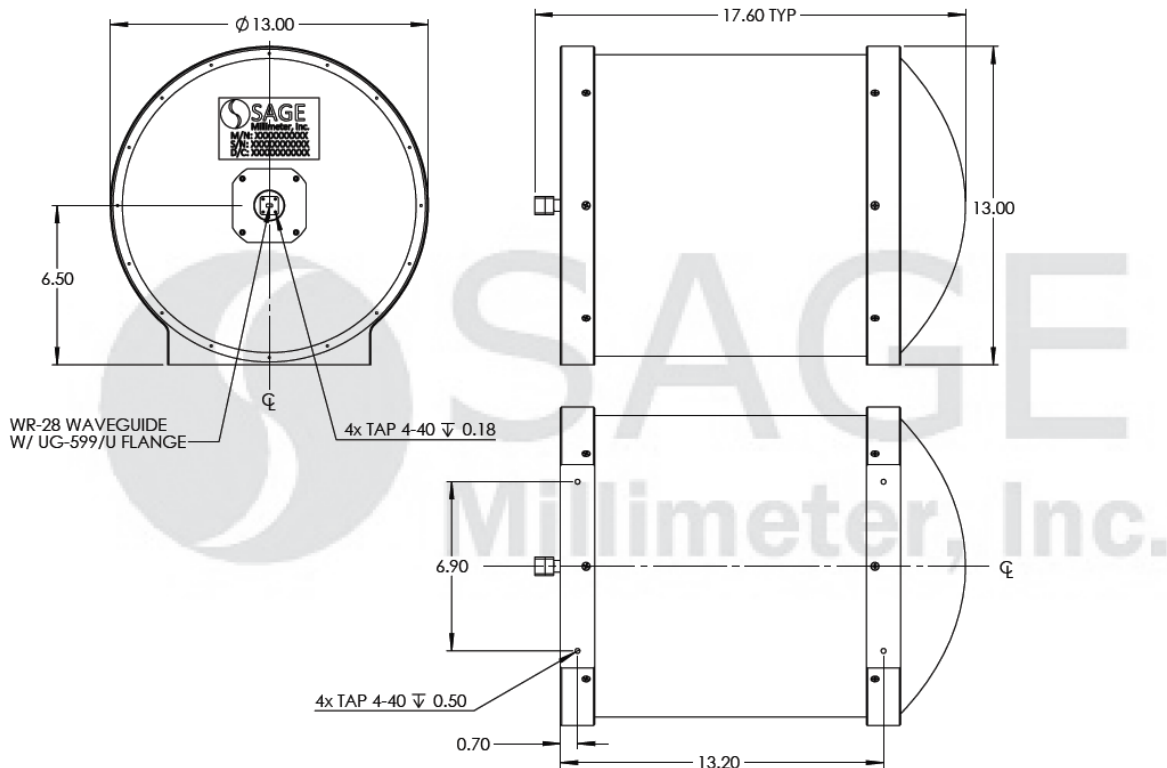


www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505
 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com



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



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.

