SAG-7438033203-12-S1

E Band Gaussian Optics Antenna, 74 to 80 GHz, 32 dBi Gain, 3"

Description:

Model SAG-7438033203-12-S1 is a 3" E-band Gaussian antenna that operates from 73.5 to 79.5 GHz. The Gaussian antenna delivers a 32 dBi nominal gain and 3.0 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-12 waveguide and UG-387/U flange as its input port. By removing the mode transition, SAGE



Millimeter model number SWT-12125-SB, the input port becomes a 0.125" diameter circular waveguide, which can support both linear and circular polarized waveforms.

Features:

- Center Fed
- Low Sidelobes
- Low Cross Polarization

Electrical Specifications:

Applications:

- Radar Systems
- Communication Systems
- Plasma Systems

Parameter	Minimum	Typical	Maximum
Frequency	73.5 GHz	76.5 GHz	79.5 GHz
Gain		32 dBi	
3 dB Beamwidth		3.0°	
Sidelobes		-20 dB	
Polarization	Linear		
Return Loss		21 dB	1 33
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

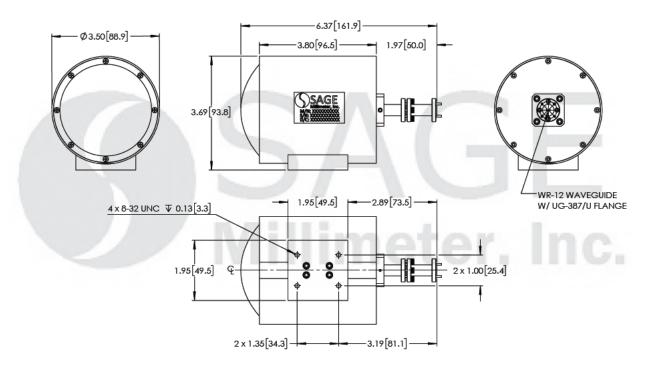
Item	Specification	
Antenna Port	WR-12 Waveguide with UG-387/U Flange	
Material	Aluminum	
Finish	Black Anodized	
Weight	1.4 lb	
Lens Diameter	3.0"	
Dimensions	3.69" (H) x 6.37" (L)	
Outline	AG-RE34	



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

E Band Gaussian Optics Antenna, 74 to 80 GHz, 32 dBi Gain, 3"

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.



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