



Ka-Band Spot-Focusing Lens Antenna, 35 GHz, Focal Length 10 cm

Description:

Model SAQ-353039-250-S1 is a Ka-band spot-focusing lens antenna that delivers a 3 dB spot size of 1.16" at a focal length of 3.94" (10 cm). The antenna employs a low loss lens to offer excellent aperture efficiency at 35 GHz. The lens antenna is equipped with a 0.250" diameter circular waveguide and UG-599/U-M flange as its input port. It supports both linear and circular polarized waveforms.



Features:

- Ridged Mechanical Configurations
- High Efficiency and Low loss
- Low Sidelobe Levels

Applications:

- Scientific Instruments
- Material Research Instruments

Electrical Specifications:

Parameter		Minimum	Typical	Maximum
Frequency		34.0 GHz	35.0 GHz	36.0 GHz
Frequency Bandwidth			±500 MHz	
Focal Length			3.94"	
Peak to First Null	Spot Size		3.39"	
	Power Captured		83.8%	
10 dB Below Peak	Spot Size		1.96"	
	Power Captured		78.9%	
3 dB Below Peak	Spot Size		1.16"	
	Power Captured		47.4%	
Polarization		Linear and Circular		
VSWR			1.2:1	
Specification Temperature			+25°C	
Operating Temperature		-40°C		+85°C

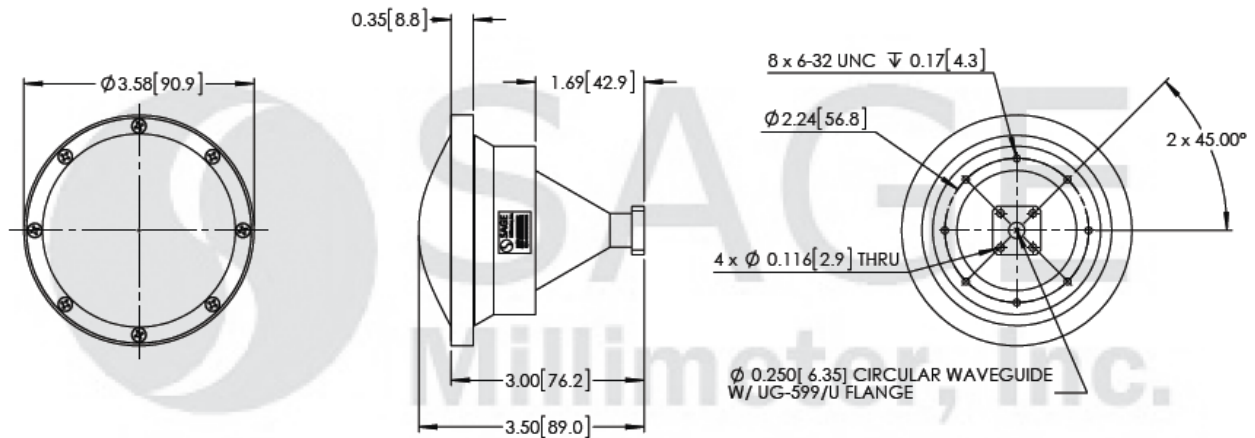
Mechanical Specifications:

Item	Specification
Antenna Port	0.250" Dia Circular Waveguide with UG-599/U-M Flange
Horn Material	Aluminum
Finish	Chem Film
Weight	3.2 Oz
Lens Diameter	3.3"
Dimensions	3.50" (L) x 3.58" (Ø)
Outline	AQ-CA-3.0-C250



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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.

Caution:

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

