



K-Band Spot-Focusing Lens Antenna, 24 GHz, Focal Length 10 cm

Description:

Model SAQ-243039-368-S1 is a K-band spot-focusing lens antenna that delivers a 10 dB spot size of 1.15" at a focal length of 3.94". The antenna employs a low loss lens to offer excellent aperture efficiency at 24 GHz. The lens antenna is equipped with a 0.368" diameter circular waveguide and UG-595/U 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:

- Material Property Measurement Systems

Electrical Specifications:

Parameter		Minimum	Typical	Maximum
Frequency			24 GHz	
Focal Length			3.94" (10 cm)	
Peak to First Null	Spot Size		1.63"	
	Power Captured		83.8%	
10 dB Below Peak	Spot Size		1.15"	
	Power Captured		78.9%	
3 dB Below Peak	Spot Size		0.67"	
	Power Captured		47.4%	
Polarization		Linear and Circular		
Specification Temperature			+25 °C	
Operation Temperature		-45 °C		+85 °C

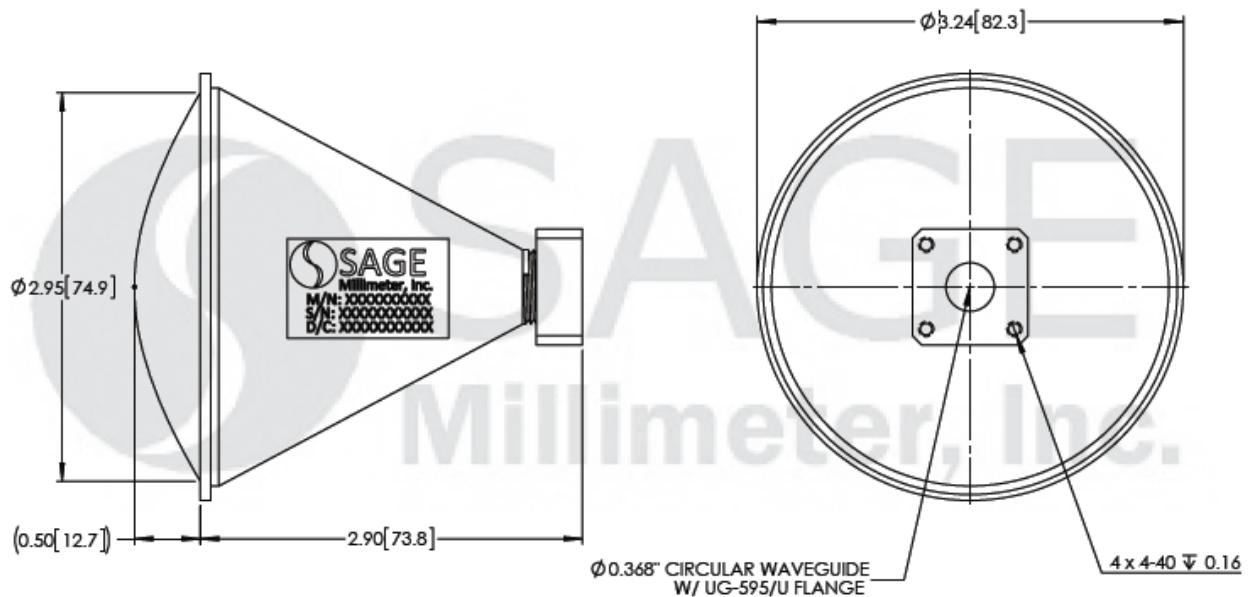
Mechanical Specifications:

Item	Specification
Antenna Port	0.368" Dia Circular Waveguide with UG-595/U Flange
Horn Material	Aluminum
Finish	Chem Film
Weight	3.0 Oz
Lens Diameter	2.95"
Dimensions	2.90" (L) x 3.24" (Ø)
Outline	AQ-CK-2.95



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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.

