

K-Band Spot-Focusing Lens Antenna, 23 GHz, Focal Length 10 cm

Description:

Model SAQ-233039-396-S1 is a K-band spot-focusing lens antenna that delivers a 10 dB spot size of 1.27" at a focal length of 3.94". The antenna employs a low loss lens to offer excellent aperture efficiency at 23 GHz. The lens antenna is equipped with a 0.396" diameter circular waveguide and UG-595/U-M flange as its input port. It supports 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	20 GHz	23 GHz	26.5 GHz
Focal Length		3.94" [10 cm]	
Peak to First Null	Spot Size	1.81"	
	Power Captured	83%	
10 dB Below Peak	Spot Size	1.27"	
	Power Captured	78.9%	
3 dB Below Peak	Spot Size	0.75"	
	Power Captured	47%	
Polarization	Linear and circular		
Specification Temperature		+25 °C	
Operation Temperature	-45 °C		+85 °C

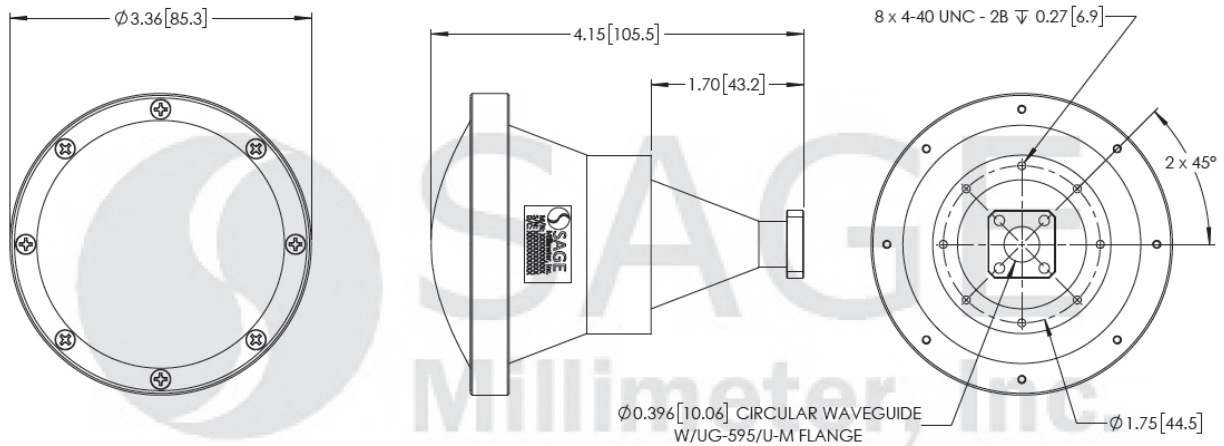
Mechanical Specifications:

Item	Specification
Antenna Port	0.396" \varnothing Circular Waveguide with UG-595/U-M Flange
Horn Material	Aluminum
Finish	Chem Film
Weight	3.0 Oz
Lens Diameter	2.76"
Dimensions	4.15" (L) x 3.36" (\varnothing)
Outline	AQ-CK-2.76-C396



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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.

Caution:

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

