SAQ-263079-28-S1

Rev. 1.1

Ka-Band Spot-Focusing Lens Antenna, 26 GHz

Description:

Model SAQ-263079-28-S1 is a Ka-band spot-focusing lens antenna that delivers a 3 dB spot size of 1.32” at a focal length of 7.87”. The antenna employs a low loss lens to offer excellent aperture efficiency at 26 GHz. The lens antenna is equipped with a WR-28 waveguide and UG-599/U flange as its input port. It supports linear polarized waveforms.

Features:

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

Applications:

- 5G Systems
- Material Research Instruments
- Scientific Instruments

Electrical Specifications:

Parameter		Minimum	Typical	Maximum
Frequency			26 GHz	
Frequency Bandwidth			±500 MHz	
Focal Length			7.87”	
Peak to First Null	Spot Size		3.18”	
	Power Captured		83.8%	
10 dB Below Peak	Spot Size		2.24”	
	Power Captured		78.9%	
3 dB Below Peak	Spot Size		1.32”	
	Power Captured		47.4%	
Polarization			Linear	
Return Loss			14 dB	
Specification Temperature			+25 °C	
Operating Temperature		-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
Antenna Port	WR-28 Waveguide with UG-599/U Flange
Horn Material	Aluminum
Finish	Chem Film
Weight	3.2 Oz
Lens Diameter	2.80”
Dimensions	3.00” (L) x 2.98” (D)
Outline	AQ-RA-3.0

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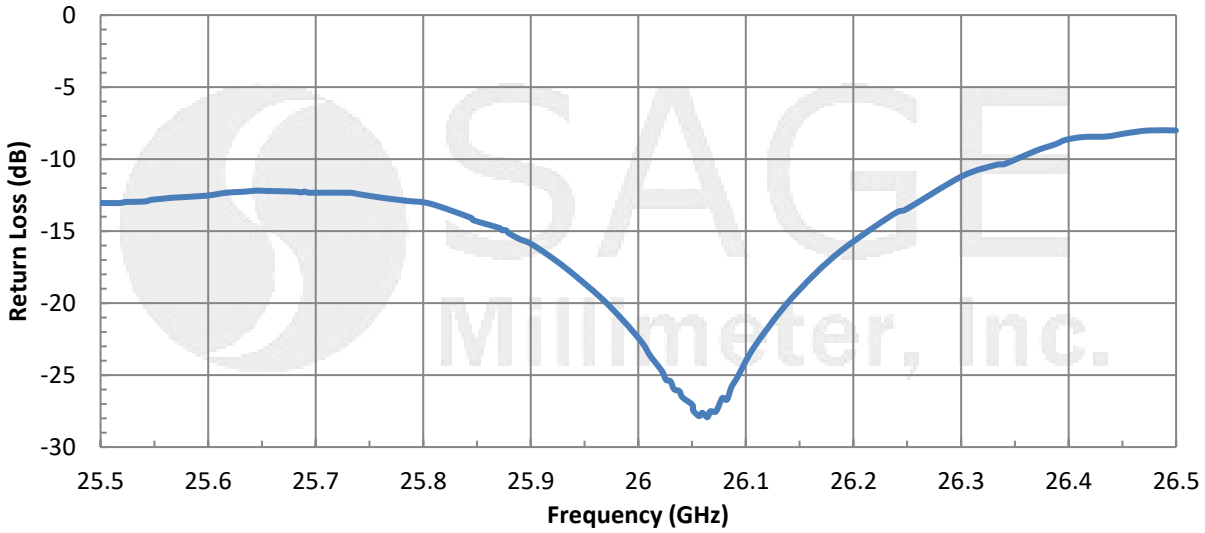
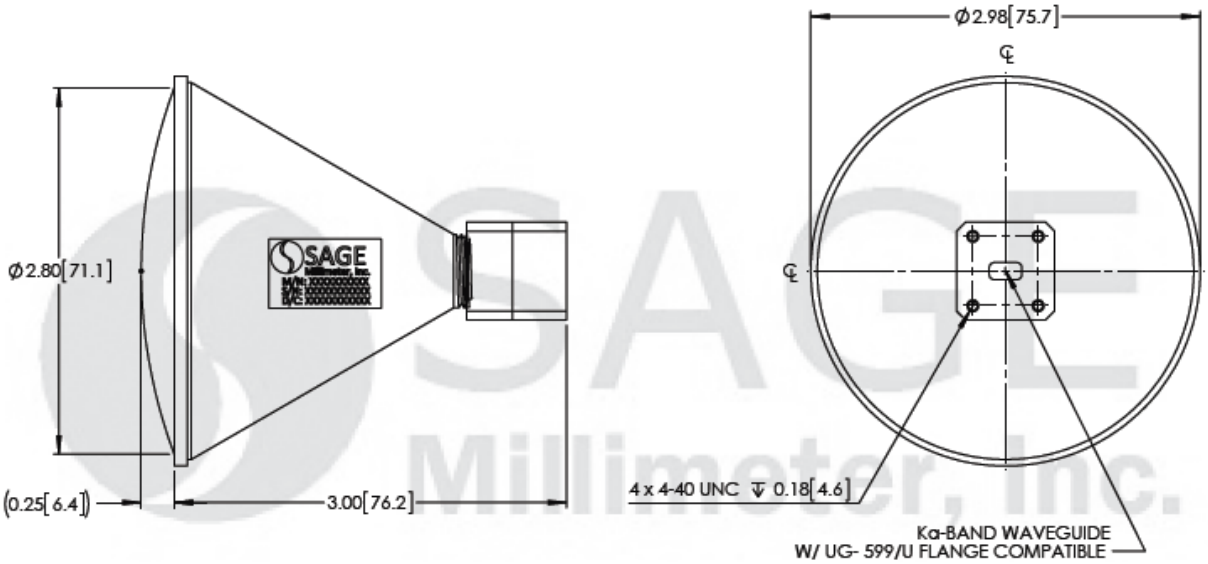
Typical Return Loss vs. Frequency



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



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- All testing was performed under +25˚C case temperature.
- 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.

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