



## Ka-Band Lens Corrected Antenna

### Description:

**Model SAL-2733232510-315-S1** is a Ka-band lens corrected antenna that operates from 27 to 32 GHz. At a center frequency of 29.5 GHz, the antenna delivers 25 dBi nominal gain and 10 degrees typical half power beamwidth. The antenna employs a low loss lens to offer excellent aperture efficiency and low sidelobe levels. The lens corrected antenna is equipped with a 0.315" diameter circular waveguide and UG-599/U-M flange as its input port. It supports both linear and circular polarized waveforms.



### Features:

- Center Fed
- Low Sidelobes
- Low Cross Polarization

### Applications:

- Radar Systems
- Communication Systems
- Sensor Systems

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	27.0 GHz	29.5 GHz	32.0 GHz
Gain		25 dBi	
3 dB Beamwidth		10°	
Sidelobe Level		-22 dB	
Polarization	Linear and Circular		
Return Loss		-25 dB	
Specification Temperature		+25°C	
Operating Temperature	-45°C		+85°C

### Mechanical Specifications:

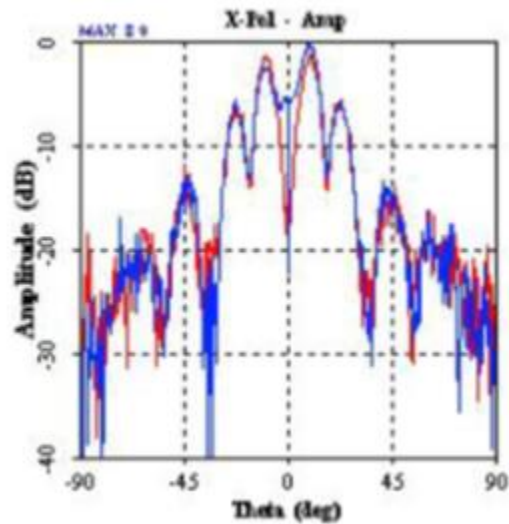
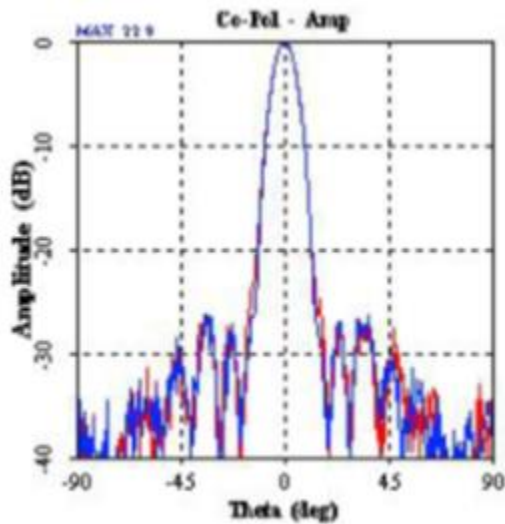
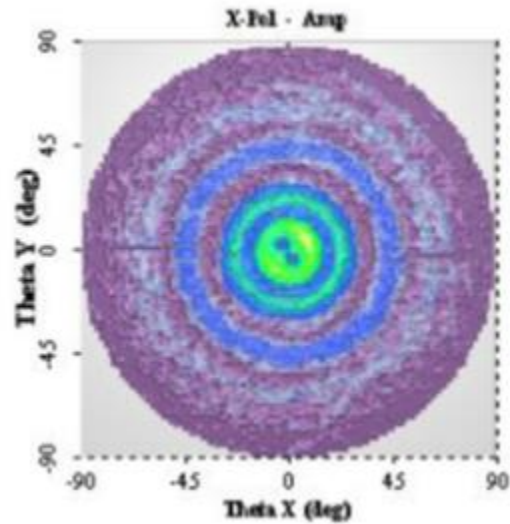
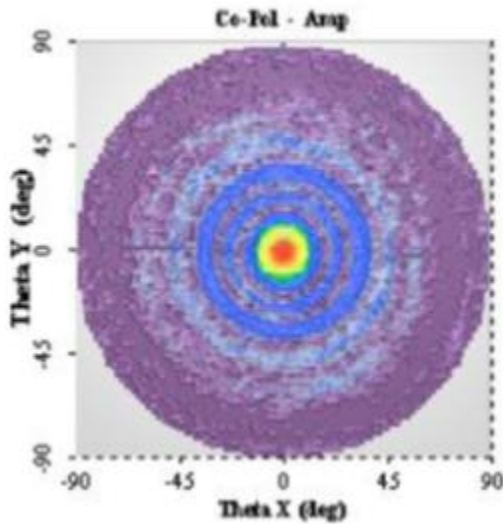
Item	Specification
Antenna Port	0.315" Dia Circular Waveguide with UG-599/U-M Flange
Lens Diameter	2.80"
Dimensions	2.98" (∅) x 2.84" (L)
Material	Aluminum
Finish	Chem Film
Weight	2.8 Oz
Outline	AL-CA3-315





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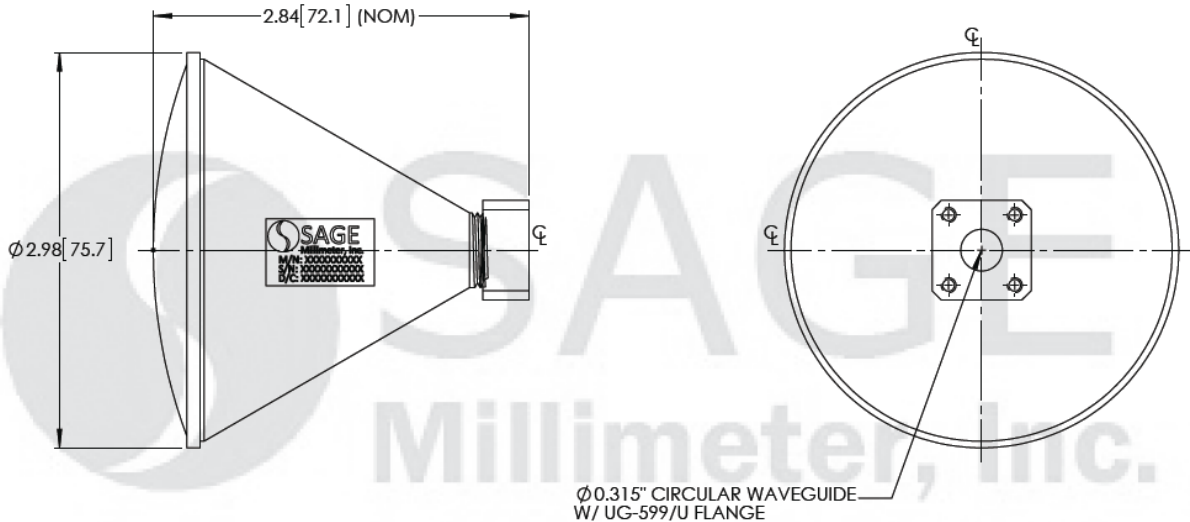
### Typical Measured Far Field Patterns (27 GHz)





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



**Note:**

- All data are presented using a limited sample lot. Actual data may vary unit to unit.
- 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.

