



Ka-Band Lens Corrected Antenna, 24 to 29 GHz

Description:

Model SAL-2432932410-315-S1 is a Ka-band lens corrected antenna that operates from 24 to 29 GHz. At the center frequency of 26.5 GHz, the antenna delivers 24 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	24.0 GHz	26.5 GHz	29.0 GHz
Gain		24 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:

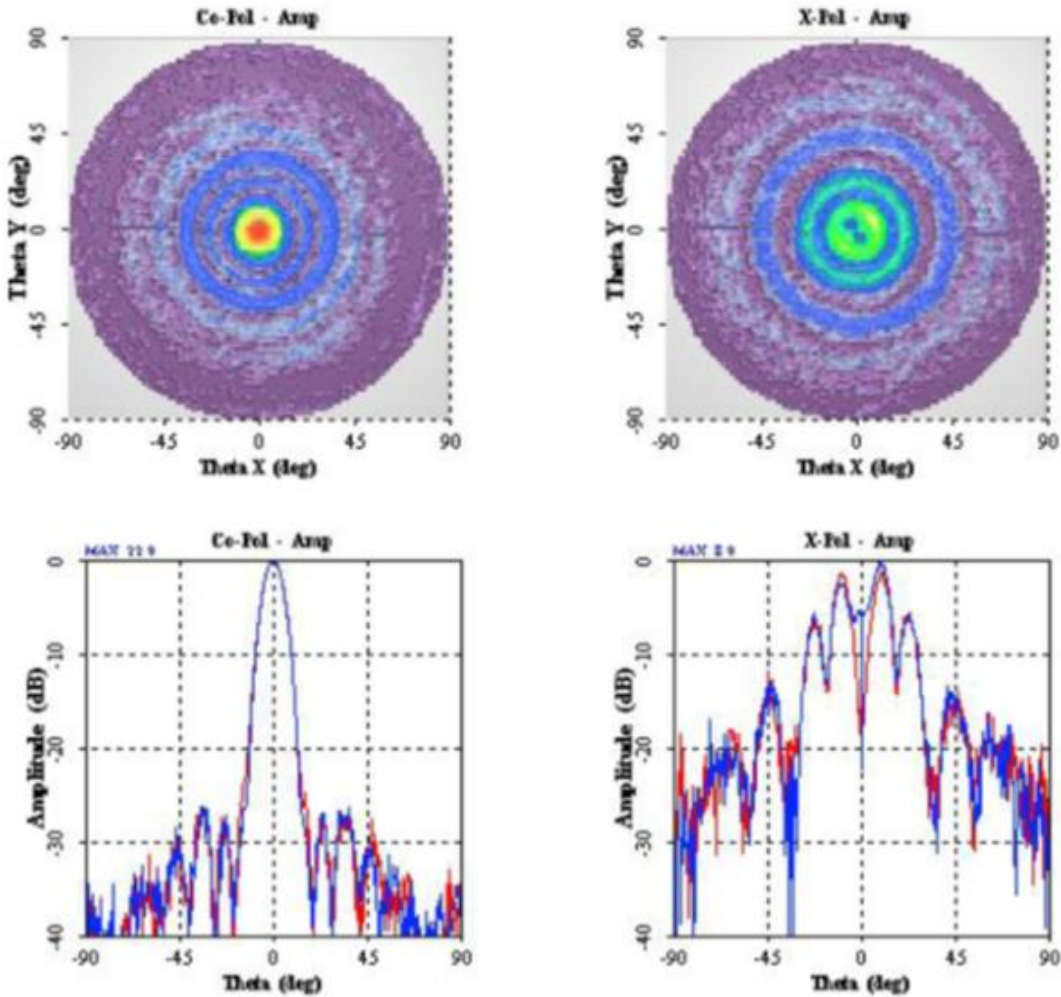
Item	Specification
Antenna Port	0.315" Dia Circular Waveguide with UG-599/U Flange
Lens Diameter	2.80"
Dimensions	2.98" (Ø) x 2.84" (L)
Material	Aluminum
Finish	Chem Film
Weight	2.8 Oz
Outline	AL-CA3-315





Ka-Band Lens Corrected Antenna, 24 to 29 GHz

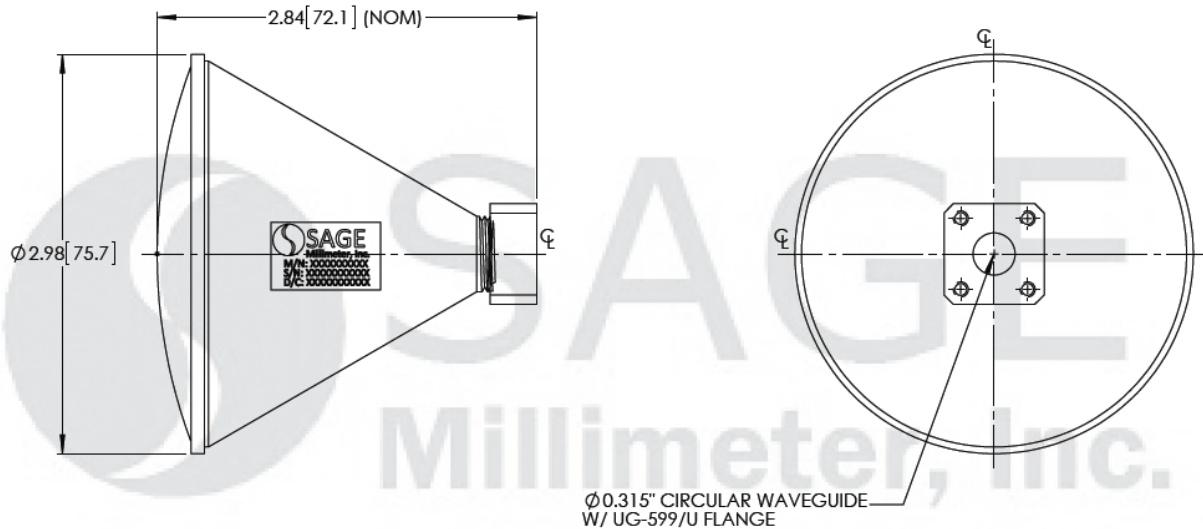
Typical Measured Far Field Patterns (26.5 GHz)





Ka-Band Lens Corrected Antenna, 24 to 29 GHz

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 room 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.

