



## Ka-Band Circular Polarized Lens Corrected Antenna, 26.8 GHz

### Description:

**Model SAL-2632732410-28-C1** is a Ka-band circular polarized lens corrected antenna that operates from 26.3 to 27.2 GHz. At center frequency, the antenna delivers 24 dBi nominal gain and a 10 degree half power beam width. The antenna employs a low loss lens to offer excellent aperture efficiency and low sidelobe levels. The antenna incorporates a linear to circular waveform polarizer. This feature allows either RHCP or LHCP operations, depending on how the port is selected. This antenna is equipped with a WR-28 waveguide and UG-599/U flange as its input port.



### Features:

- Side Fed
- Low Sidelobes
- High Aperture Efficiency
- RHCP or LHCP Support
- Integrated Linear to Circular Polarizer

### Applications:

- Radar Systems
- Communication Systems
- Sensor Systems

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	26.3 GHz	26.8 GHz	27.2 GHz
Gain		24.0 dBi	
3 dB Beam width		10°	
Sidelobe Level		-22 dB	-16 dB
Polarization	Linear and Circular		
Cross-Polarization		-29.0 dB	
Return Loss		22.0 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

### Mechanical Specifications:

Parameter	Connector
Antenna Port	WR-28 Rectangular Waveguide with UG-599/U Flange
Lens Diameter	2.80"
Dimensions	2.98" (Ø) x 3.31" (L)
Weight	6.0 Oz
Horn and Polarizer Material	Aluminum
Finish	Chem Film
Outline	AK-ALCP-1

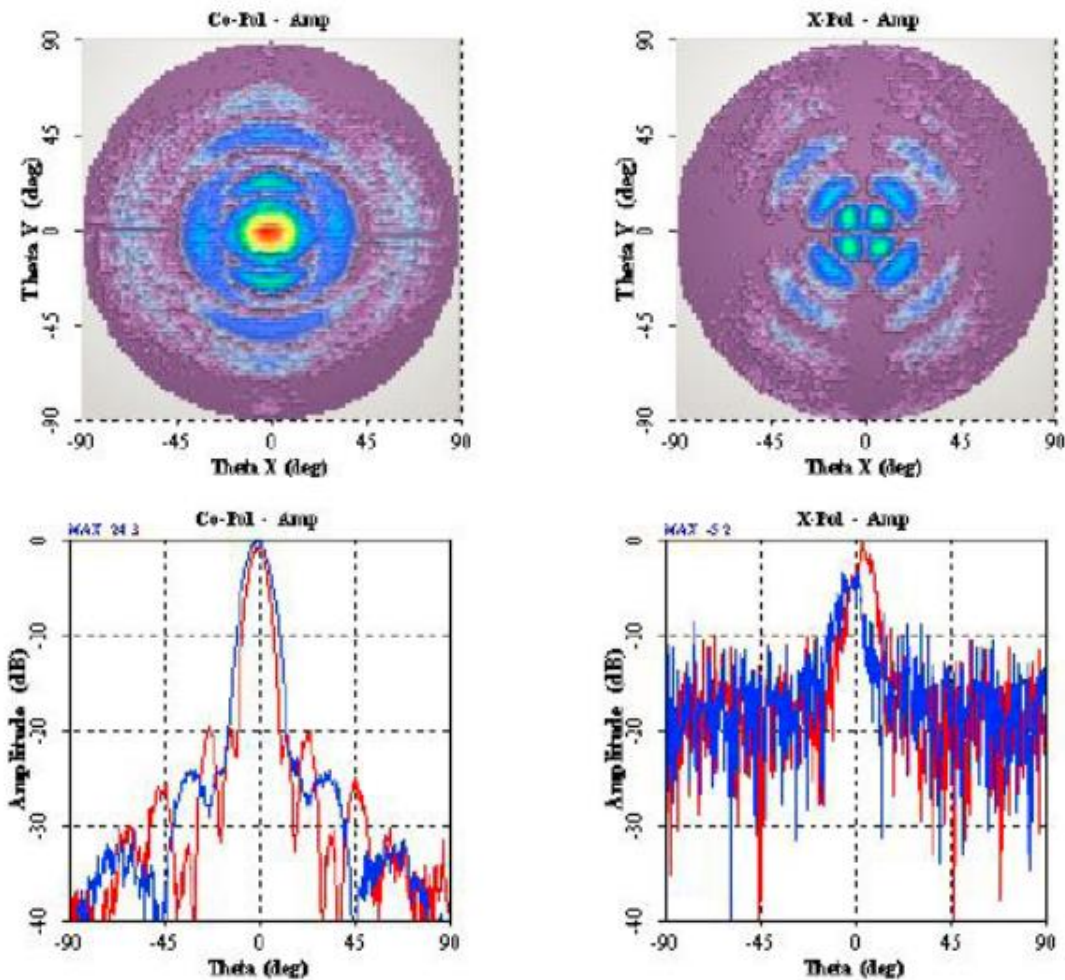


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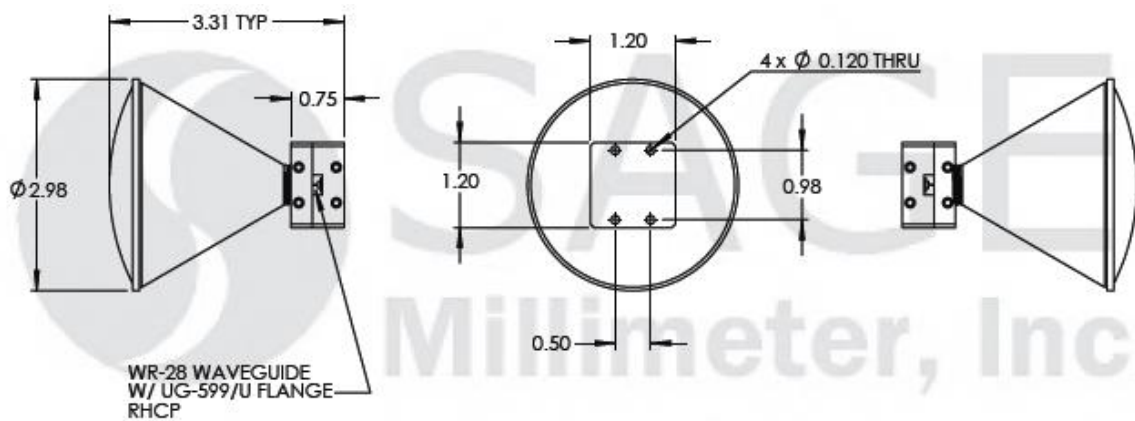


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### Measured Antenna Co-pol and Cross Pol Patterns



### Mechanical Outline: (Unless otherwise specified, all dimensions are in inches)





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### Note:

- When using RHCP, terminate LHCP. When using LHCP, terminate RHCP.
- 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.

