



Ka-Band Lens Corrected Antenna

Description:

Model SAL-3333732905-250-S1 is a Ka-band lens corrected antenna that operates from 33 to 37 GHz. At a center frequency of 35 GHz, the antenna delivers 29 dBi nominal gain and 5 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 0.250" 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	33 GHz	35 GHz	37 GHz
Gain		29 dBi	
3 dB Beamwidth		5°	
Sidelobe Level		-18 dB	
Polarization	Linear and Circular		
Return Loss		20 dB	

Mechanical Specifications:

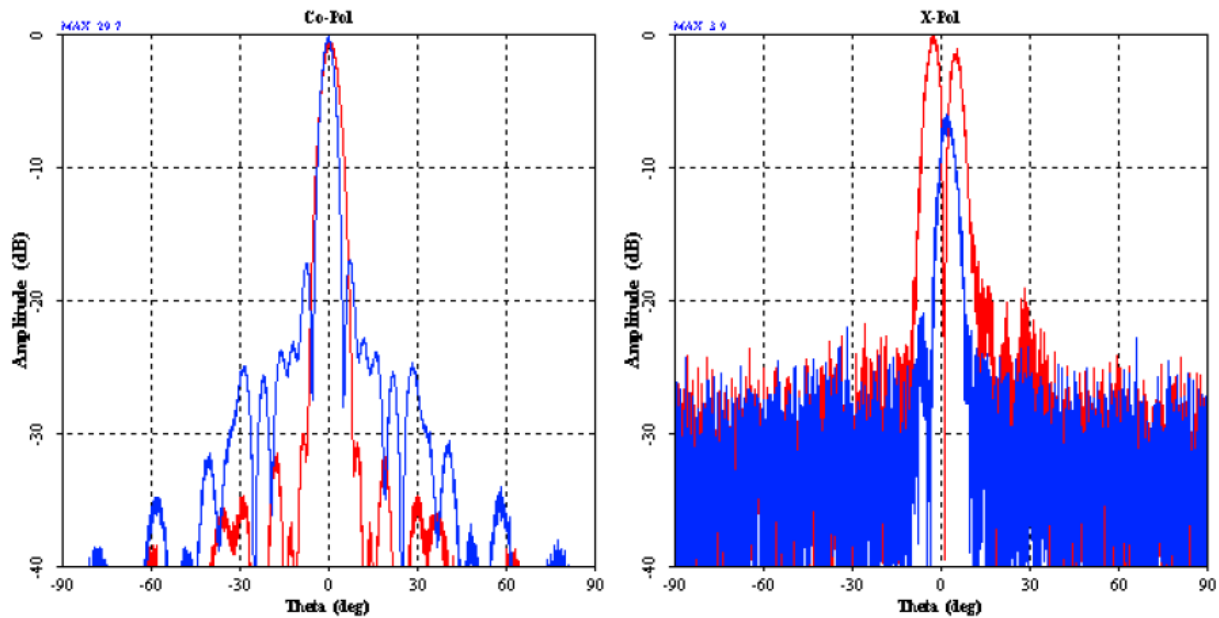
Item	Specification
Antenna Port	0.250" Dia Circular Waveguide with UG-599/U-M Flange
Lens Diameter	4.62"
Dimensions	4.80" (Ø) x 4.88" (L)
Material	Aluminum
Finish	Chem Film
Weight	8.8 Oz
Outline	AL-CA29-250



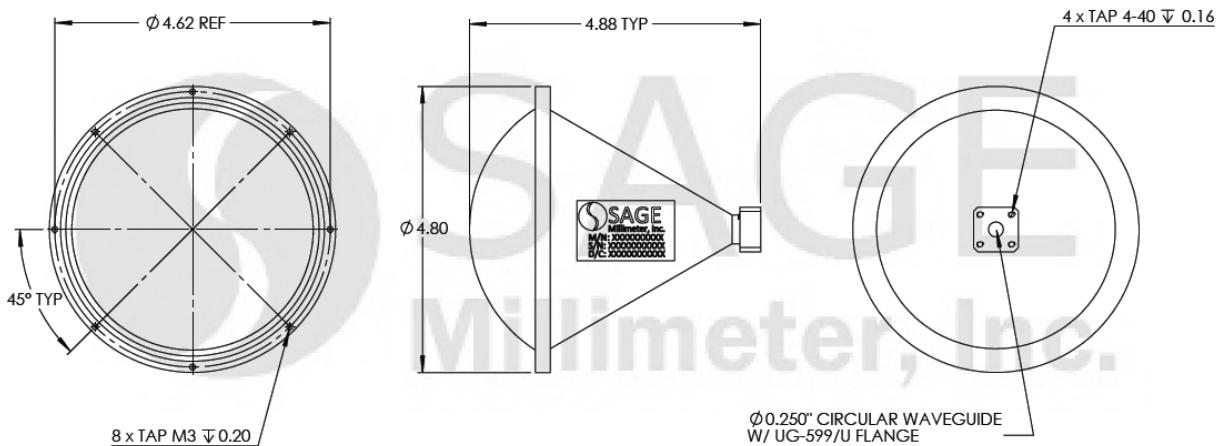


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Typical Measured Far Field Patterns @ 35 GHz



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



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.



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