



## K-Band Lens Corrected Antenna, 17.5 to 22 GHz, 22 dBi Gain

### Description:

**Model SAL-1832232212-470-S1** is a K-band lens corrected antenna that operates from 17.5 to 22 GHz. At center frequency, the antenna delivers 22 dBi nominal gain and 12 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 0.470" diameter circular waveguide and UG-595/U 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	17.5 GHz		22 GHz
Gain		22 dB	
3 dB Beamwidth		12°	
Sidelobe Level			-20 dB
Polarization	Linear and Circular		
Return Loss		1.2:1	

### Mechanical Specifications:

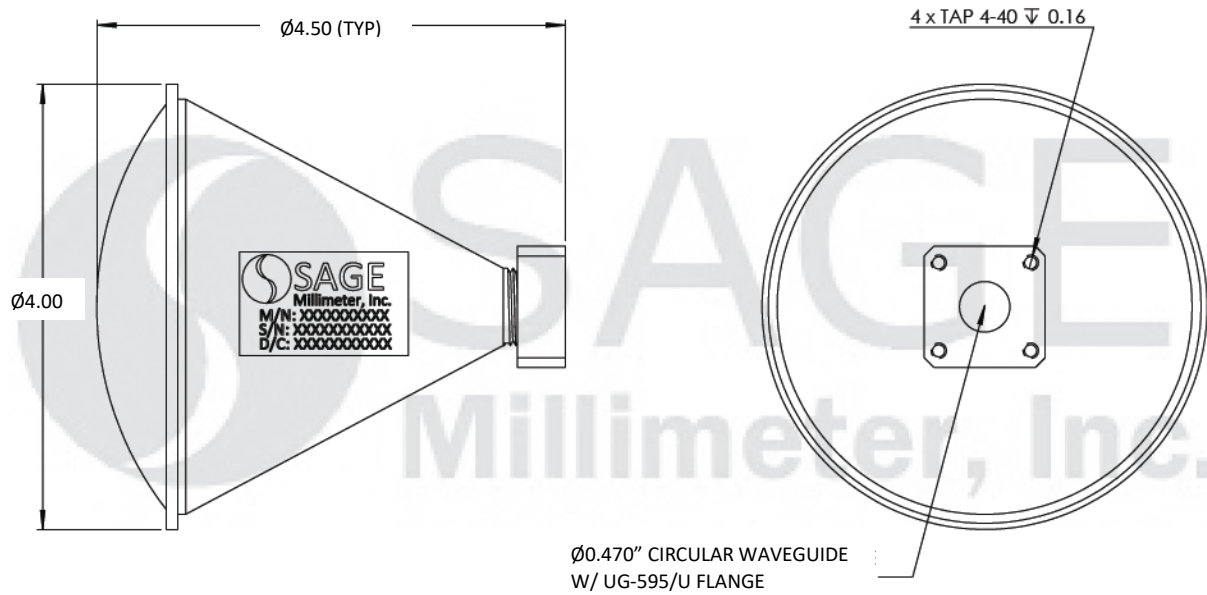
Item	Specification
Antenna Port	0.470" Dia Circular Waveguide with UG-595/U Flange
Lens Diameter	4"
Dimensions	4" (Ø) x 4.5" (L)
Material	Aluminum
Finish	Chem Film
Weight	4.5 Oz
Outline	AL-CK22-470





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



**Note:**

- 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.

