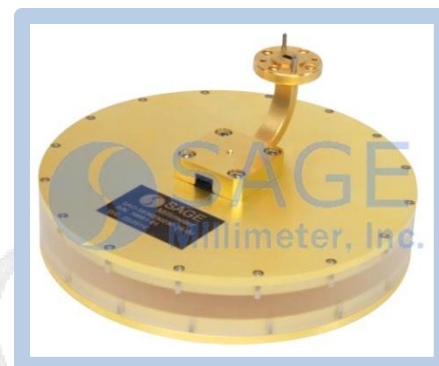


## V-Band Omni-Directional Antenna, 360 Degree

### Description:

**Model SAO-5836230230-15-S1** is a WR-15 omni-directional antenna that operates between 58 and 62 GHz. This vertically polarized antenna offers 360 degrees azimuth coverage with  $\pm 3$  dB angular gain flatness. The antenna features a half power beamwidth of 30 degrees in the vertical direction and 2 dB gain across the entire frequency range.



### Features:

- 360° Azimuth Coverage
- 30° Vertical 3 dB Beamwidth
- Vertically Polarized

### Applications:

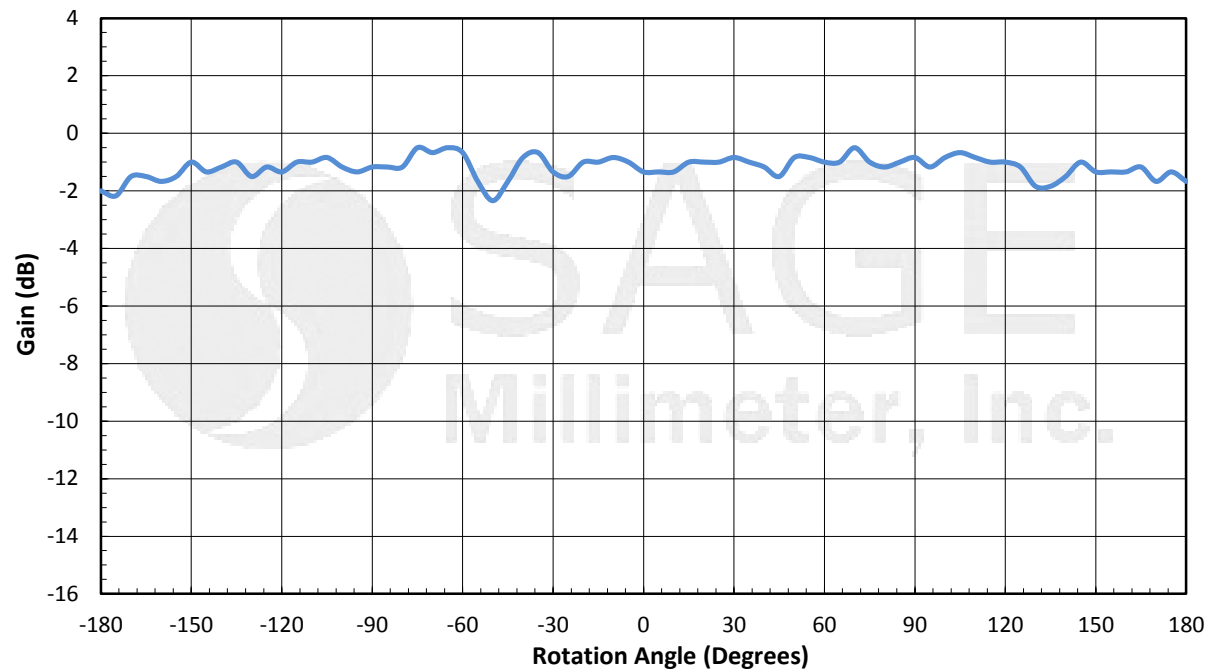
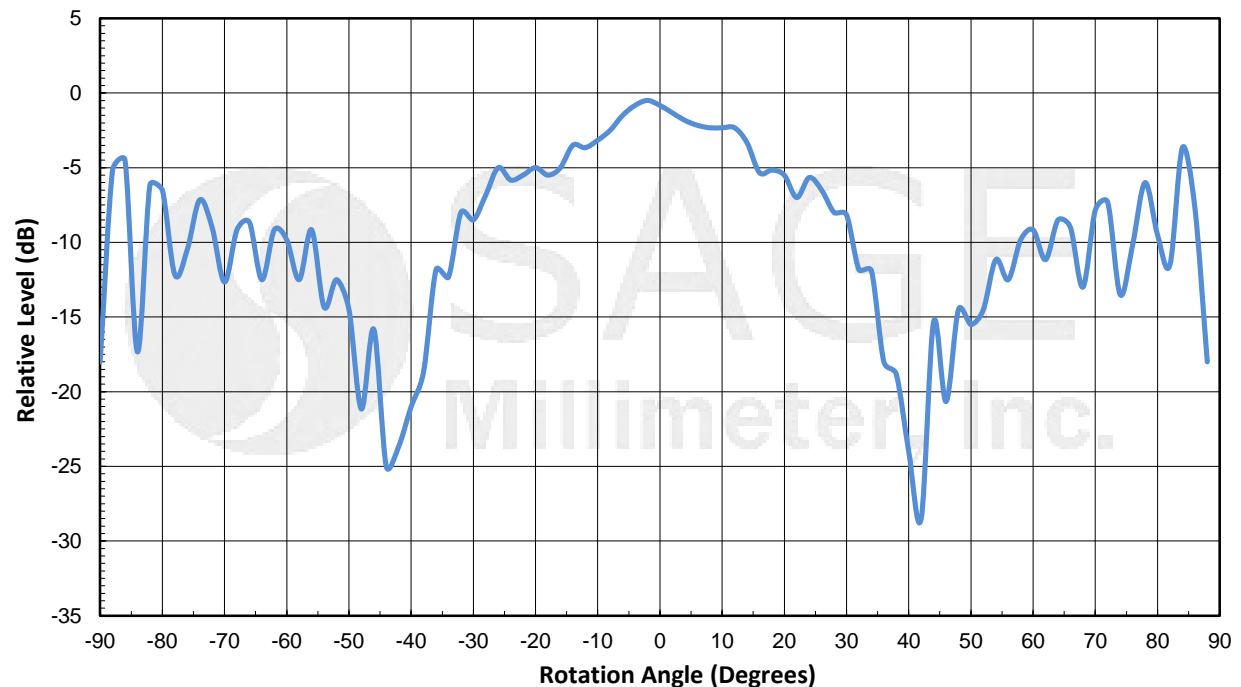
- Communication Links
- EW Systems
- Indoor Local Area Networks

### Electrical Specifications:

| Parameter                 | Minimum | Typical | Maximum |
|---------------------------|---------|---------|---------|
| Frequency Range           | 58 GHz  |         | 62 GHz  |
| Gain                      |         | 2 dB    |         |
| Gain Variation            | -3 dB   |         | 3 dB    |
| Azimuth                   |         | 360°    |         |
| 3 dB Beamwidth, Vertical  |         | 30°     |         |
| VSWR                      |         | 2:1     |         |
| Power Handling            | 1 W     |         |         |
| Specification Temperature |         | +25°C   |         |
| Operating Temperature     | -40°C   |         | +85°C   |

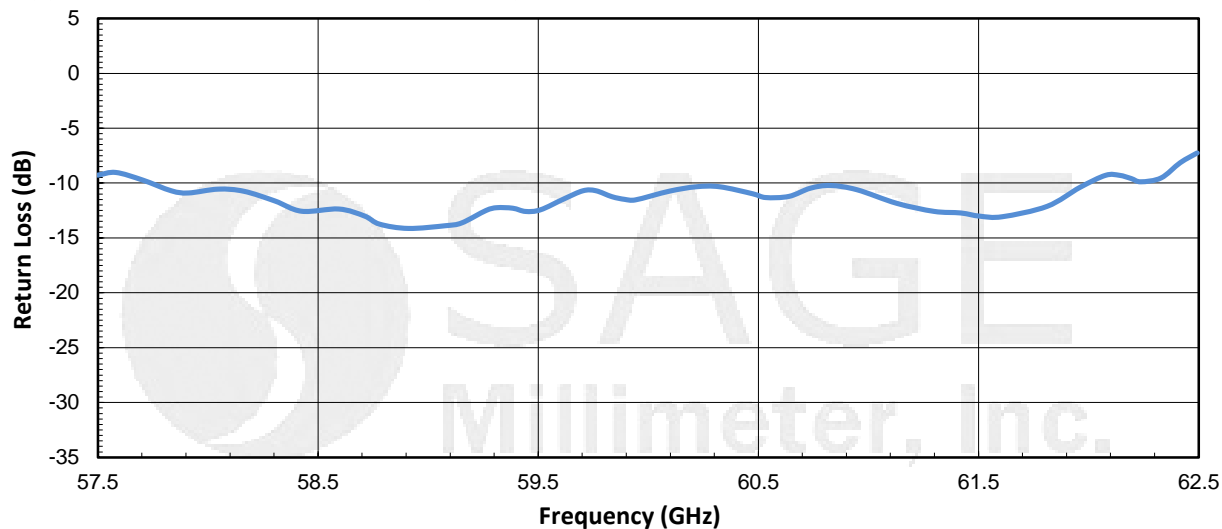
### Mechanical Specifications:

| Parameter     | Connector                            |
|---------------|--------------------------------------|
| Input         | WR-15 Waveguide with UG-385/U Flange |
| Size          | 1.78" (H) x 4.00" (Ø)                |
| Body Material | Aluminum                             |
| Finish        | Gold Plated                          |
| Weight        | 12.0 Oz                              |
| Outline       | AO-V2                                |

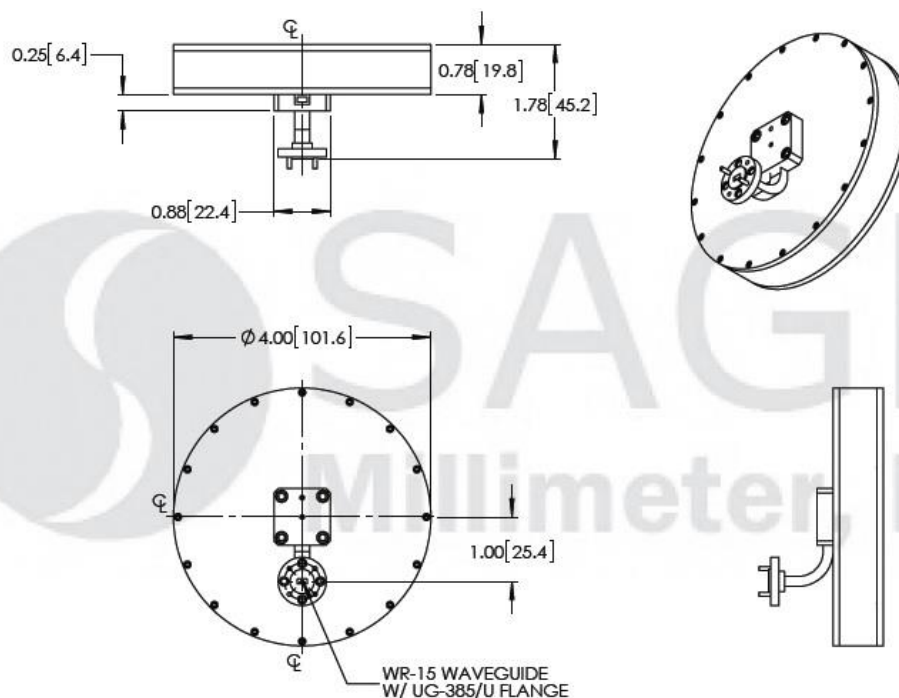
**V-Band Omni-Directional Antenna, 360 Degree****Typical Horizontal Radiation Pattern @ 60 GHz****Typical Vertical Radiation Pattern @ 60 GHz**

## V-Band Omni-Directional Antenna, 360 Degree

## Typical Return Loss vs. Frequency



## 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.
- All testing was performed under +25°C case temperature.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

## Caution:

- Foreign objects in the waveguide will affect device performance and may damage the antenna.

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