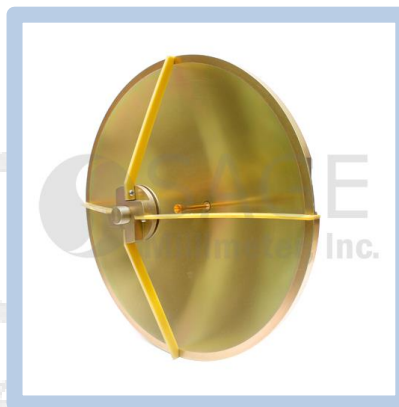




## W Band Cassegrain Antenna, 12" Dish, 92 to 96 GHz

### Descriptions:

**Model SAY-9239634507-10-U5** is a Cassegrain antenna that offers a nominal gain of 45 dB and a half power beamwidth of 0.7 degrees typically across the frequency range of 92 to 96 GHz. The main reflector is fabricated with aluminum to offer a light weight and rugged mechanical structure. The corrugated horn is used to provide the best feed efficiency and the most uniform illumination. The input port is a WR-10 waveguide with a UG-387/U-M flange. The antenna can support linear polarized waveforms and is designed and manufactured for indoor and outdoor applications. By removing the mode transition, SAGE Millimeter model **SWT-10094-SB**, the input port becomes a 0.094" diameter circular waveguide that can support both linear and circular polarized waveforms.



### Features:

- Rugged Configuration and Low Profile
- Low Loss and High Gain
- High Return Loss

### Applications:

- Communication Systems
- Radar Systems
- EW Systems

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency*	92 GHz		96 GHz
Gain		45 dBi	
3 dB Beamwidth		0.7°	
Side Lobes		-15 dB	
Return Loss		14 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

\*The antenna will cover a broader frequency range with some performance degradations.

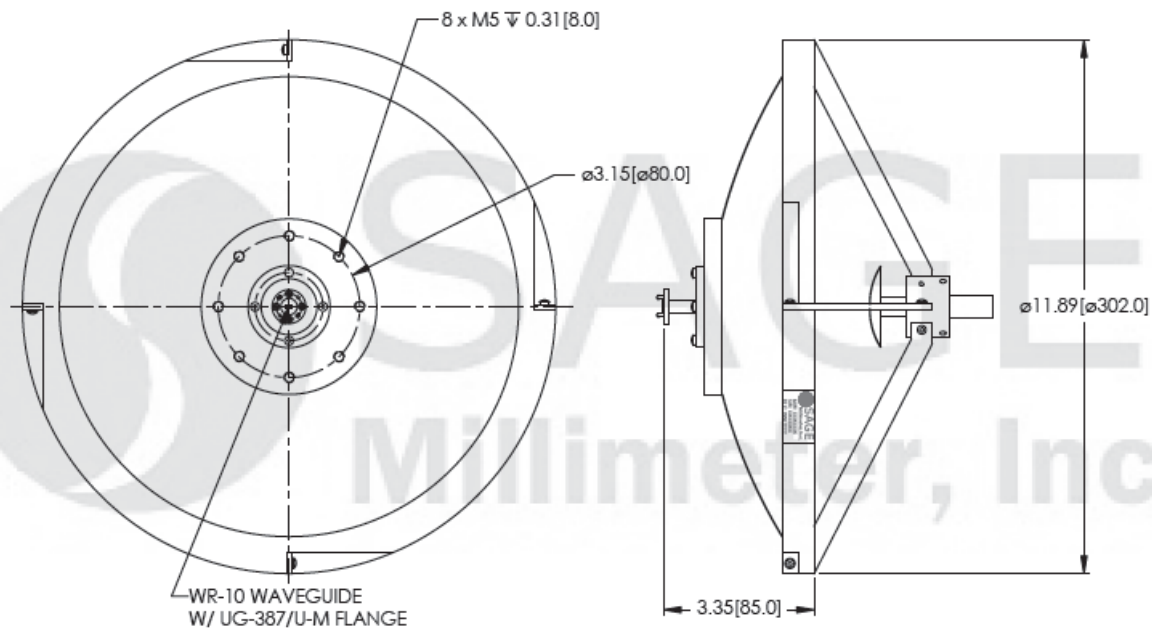
### Mechanical Specifications:

Parameter	Specification
Connector	WR-10 Waveguide with UG-387/U-M Flange
Reflector Material	Aluminum
Finish	Chem Film
Weight	60 Oz
Reflector Diameter	12"
Outline	AY-RW45-12-BX1



## W Band Cassegrain Antenna, 12" Dish, 92 to 96 GHz

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



**Note:**

- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

**Caution:**

- The mechanical structure of the Cassegrain Antenna is very fragile. Any mechanical impact will damage the antenna.
- Foreign objects in the waveguide will affect device performance and may damage the antenna.

