SAY-9239633914-10-S1

Advanced Rev 1.1

W-Band Cassegrain Antenna, 92 to 96 GHz, 6”, 39 dBi Gain

Description:

Model SAY-9239633914-10-S1 is a W-band Cassegrain antenna that offers a nominal gain of 39 dBi and a typical half power beamwidth of 1.4 degrees from 92 to 96 GHz. The aluminum reflector offers a lightweight and rugged mechanical structure and is treated with a chem film conversion coating for corrosion resistance. A corrugated scalar feed horn is used to provide optimal feed efficiency, low side lobes, high cross-pol rejection, and uniform illumination. The antenna port is a WR-10 waveguide with UG-387/U-M anti-cocking flange and can support linear polarized waveforms. Other port configurations, such as a Ø0.110” circular waveguide port, are available under different model numbers.

Features:

- Linear Polarization
- Low Side Lobe Levels
- High Cross-polarization

Applications:

- Radar and Communication Systems
- EW Systems

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	92 GHz		96 GHz
Gain		39 dBi	
3 dB Beamwidth		1.4°	
Sidelobes		-15 dB	
Return Loss		16 dB	
Specification Temperature		+25 ˚C	
Operating Temperature	-40 ˚C		+85 ˚C

Mechanical Specifications:

Item	Specification
Antenna Port	WR-10 Waveguide with UG 387/U-M Anti-Cocking Flange
Reflector Diameter	6”
Reflector Material	Aluminum
Finish	Chem Film
Weight	1.7 lbs.
Outline	AY-RW39-06-A

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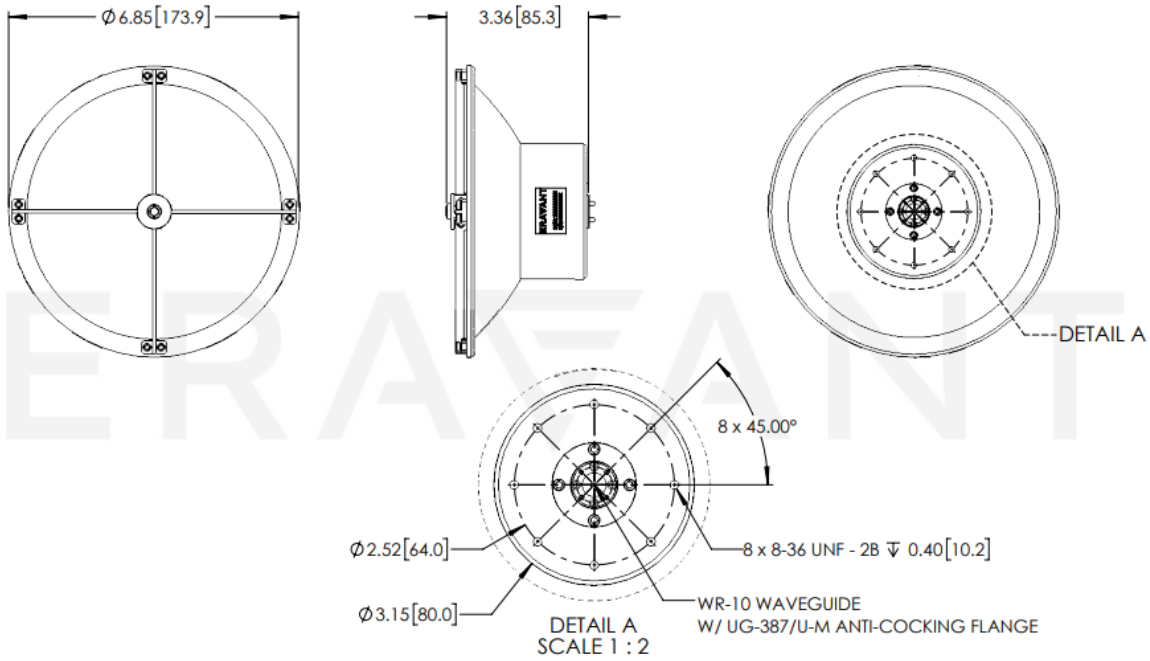
Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Note:

- Eravant reserves the right to change the information presented without notice.

Caution:

- Any foreign objects in the waveguide will degrade performance and/or damage the device.

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