

SAY-9239634507-10-S1

W-Band Cassegrain Antenna, 92 to 96 GHz, 12" Dish, 45 dBi Gain

SAY-9239634507-10-S1 is a W-band Cassegrain antenna that offers a nominal gain of 45 dBi and a typical half power beamwidth of 0.7 degrees from 92 to 96 GHz. The aluminum reflector offers a light-weight 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.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	92 GHz		96 GHz
Gain		45 dBi	
3 dB Beamwidth		0.7°	
Sidelobes		-15 dB	
Return Loss		15 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	12"
Reflector Material	Aluminum
Finish	Chem Film
Weight	2.8 lbs.
Outline	AY-RW45-12-A

ECCN

EAR99

FEATURES

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

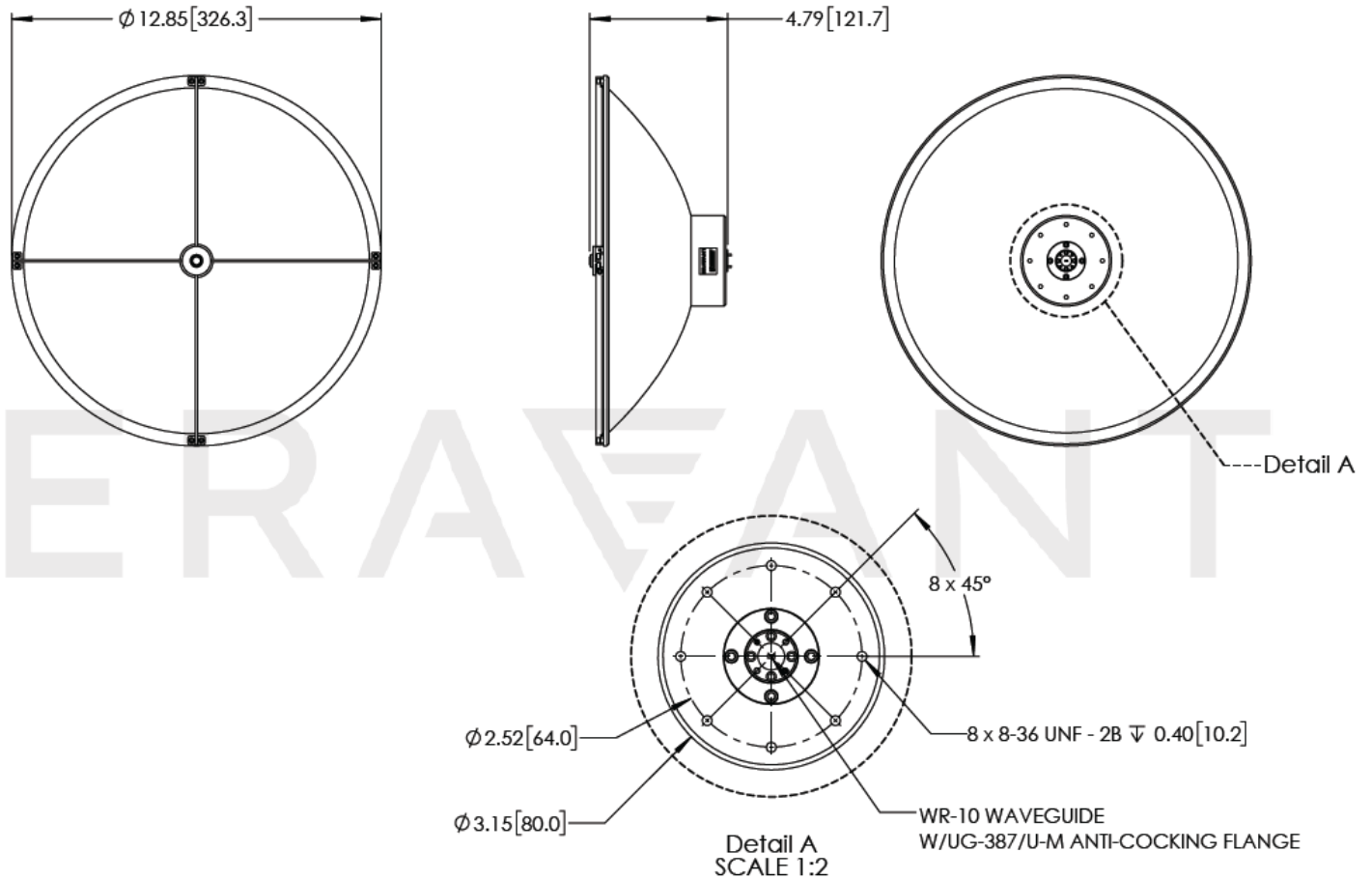
APPLICATIONS

- Radar and Communication Systems
- EW Systems

SUPPLEMENTAL DETAILS

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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:

- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.
- Any foreign objects in the antenna will cause performance degradation and possible device damage.