SAY-4535234601-188-S1-WR

Advanced

U Band Cassegrain Antenna, 45 to 52 GHz, 46 dBi, 24” Dish

Description:

Model SAY-4535234601-188-S1-WR is a Cassegrain antenna that offers a nominal gain of 46 dBi and a half power beamwidth of 0.8 degrees typically across the frequency range of 45 to 52 GHz. The main reflector is fabricated with fiber glass 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-19 waveguide with UG-383/U-M anti-cocking flange. The antenna supports linear polarization is designed. Antenna feed is covered by radome that makes it suitable for outdoor applications.

Features:

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

Applications:

- Communication Systems
- Radar Systems
- EW Systems

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	45 GHz		52 GHz
Gain		46 dBi	
3 dB Beamwidth		0.8˚	
Sidelobe Levels		-16 dB	
Return Loss		15 dB	
Polarization		Linear	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

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

Mechanical Specifications:

Item	Specification
RF Connector	0.188” Diameter Circular Waveguide with UG-383/U-M Anti-Cocking Flange
RF Connector Material	Brass
RF Connector Finish	Gold Plated
Reflector Material	Fiber Glass
Reflector Finish	Polyamide Epoxy Paint
Reflector Diameter	24”
Outline	AY-RU46-24-A-WR

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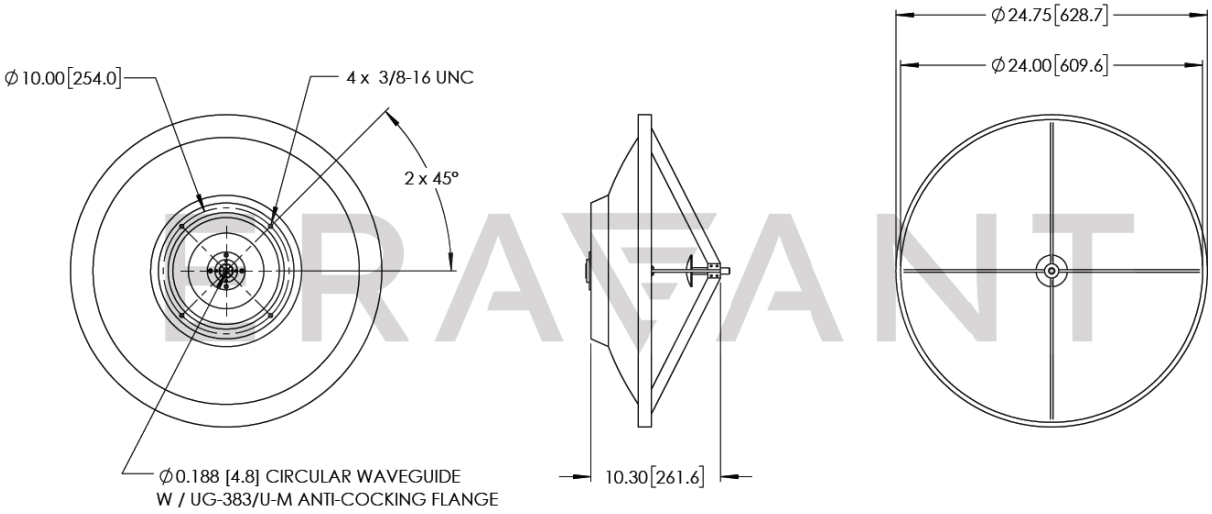
Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Note:

- The aiming scope is provided to assist the antenna’s directional alignment.
- Eravant reserves the right to change the information presented without notice.

Caution:

- Any mechanical impact will damage the antenna.
- Any foreign objects in the waveguide will degrade the performance of the antenna or damage the antenna.

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