SAY-3233834708-28-S1-WR

Ka-Band Cassegrain Antenna, Weather Resistant, 32 to 38 GHz, 36”, 47 dBi Gain

SAY-3233834708-28-S1-WR is a Ka-band Cassegrain antenna that offers a nominal gain of 47 dBi and a typical half power beamwidth of 0.8 degrees from 32 to 38 GHz. The aluminum reflector offers a lightweight and rugged mechanical structure and is treated with a chem film conversion coating for corrosion resistance, while an integrated radome provides dust and weather protection. 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-28 waveguide with UG-599/U Compatible Flange and can support linear polarized waveforms. Other port configurations, such as circular waveguide port, are available under different model numbers.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	32 GHz		38 GHz
Gain		47 dBi	
3 dB Beamwidth		0.8°	
Sidelobes		-17 dB	
Return Loss		15 dB	
Specification Temperature		+25 ˚C	
Operating Temperature	-40 ˚C		+85 ˚C

Mechanical Specifications:

Item	Specification
RF Ports	WR-28 Waveguide with UG-599/U Compatible Flange
RF Port Material	Aluminum
RF Port Finish	Chem Film
Reflector Material	Aluminum
Reflector Finish	Powder Coated
Radome Material	HIPS (High Impact Polystyrene)
Radome Finish	Grey Painted
Reflector Diameter	36”
Outline	AY-RA47-36

ECCN

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FEATURES

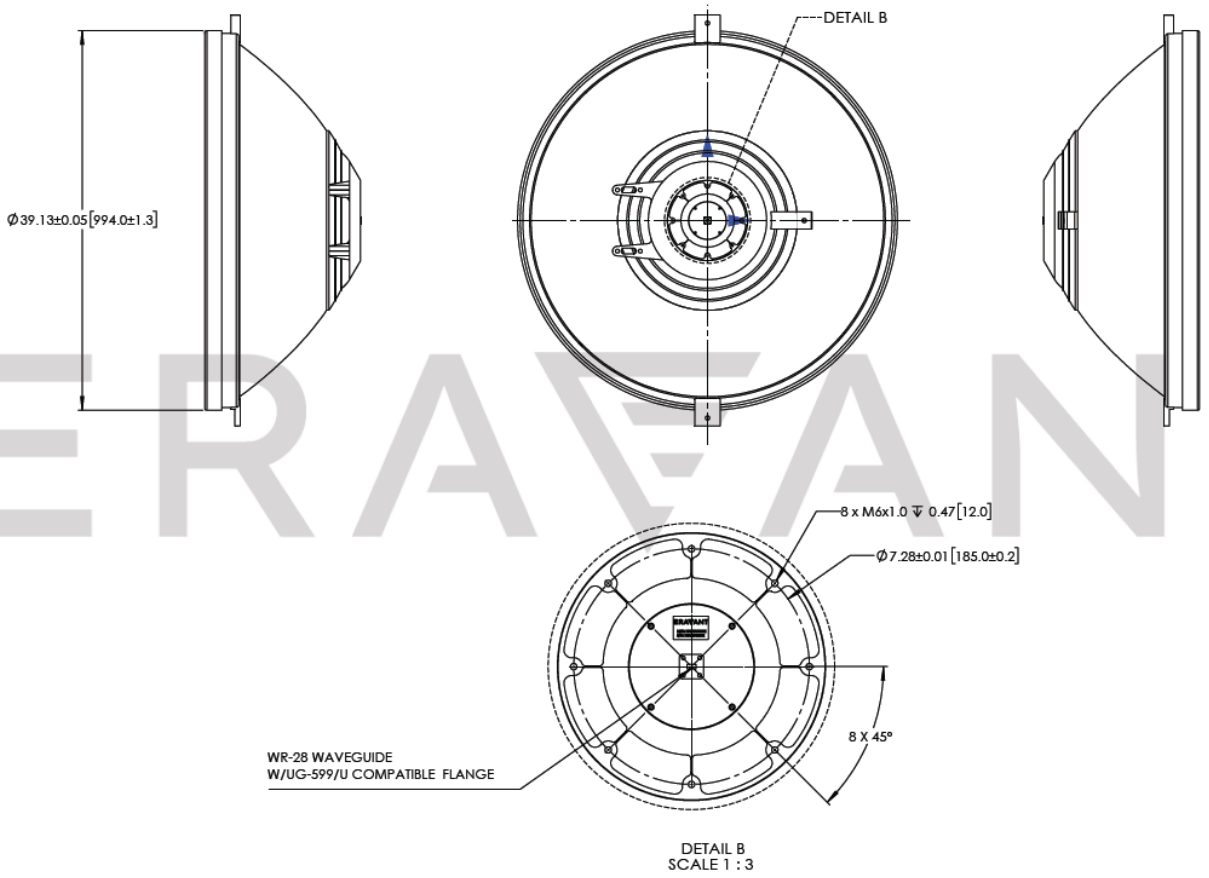
- Linear Polarization
- Low Side Lobe Levels
- High Cross-Polarization

APPLICATIONS

- Radar Communication System
- EW Systems

SUPPLEMENTAL DETAILS

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



NOTE:

- Test data provided is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- For the simulated test data provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Any foreign objects in the antenna will cause performance degradation and possible device damage.