SAY-4335035104-19-S1-WR

U Band Cassegrain Antenna, 43 to 50 GHz, 51 dBi, 48" Dish, Outdoor

Description:

Model SAY-4335035104-19-S1-WR is a weather resistant Cassegrain antenna that offers a nominal gain of 51 dBi and a half power beamwidth of 0.4 degrees across the frequency range of 43 to 50 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 corrugated horn is covered with an all weather radome. The RF port is a WR-19 rectangular waveguide with a UG-383/U-M flange, which supports linear polarized waveforms. By removing the mode transition, SAGE



Millimeter model number **SWT-19188-SB**, the input port becomes a 0.188" diameter circular waveguide with a UG-383/U-M grooved flange, which can support both linear and circular polarized waveforms.

Features:

- Telescope Provided to Aid Alignment
- Rugged Configuration and Low Profile
- Low Loss and High Gain
- Linear and Circular Polarization
- Outdoor Applications

Electrical Specifications:

Applications:

- 5G Systems
- Communication Systems
- Radar Systems
- EW Systems

Parameter	Minimum	Typical	Maximum
Frequency	43 GHz		50 GHz
Gain		51 dBi	
3 dB Beamwidth		0.4°	
Polarization		Linear	·
Sidelobes		-18 dB	
Return Loss		21 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification	
RF Connector	WR-19 Waveguide with UG-383/U-M Flange	
RF Connector Material	Brass	
RF Connector Finish	Gold Plated	
Reflector Material	Fiberglass	
Reflector Finish	Copper Metallization	
Weight	46 lbs.	
Reflector Diameter	48"	
Outline	AY-RU53-48-WR	

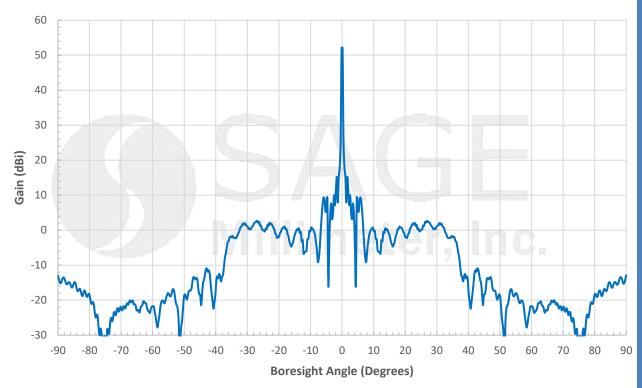


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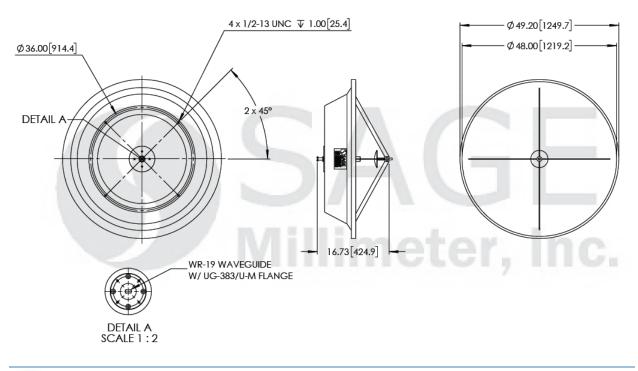
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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])





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Note:

- All data presented is simulated. Actual data may vary slightly.
- The aiming scope is provided to assist the antenna's directional alignment.
- SAGE Millimeter, Inc. 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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