

U-Band Choke Flange Feed Horn Antenna, 40 to 60 GHz, 10 dBi Gain

Description:

Model SAH-4036031060-219-S1 is a U-band choke flange feed horn antenna that operates from 40 to 60 GHz. The antenna offers a nominal gain of 10 dBi, typical half power beamwidth in E and H plane of 60 degrees and typical side lobe levels of -30 dB for both E and H plane. The antenna port is a 0.219" circular waveguide with a UG-383/U-M anti-cocking flange that supports linear and circular polarization.



Features:

- Full Band Operation
- Circular Waveguide Interface
- Low Sidelobe Level
- Linear and Circular Polarization

Applications:

- Feed Horn for Gaussian Optical Antennas
- Feed Horn for Cassegrain Antennas
- Rapid System Setups
- Engineering Setups

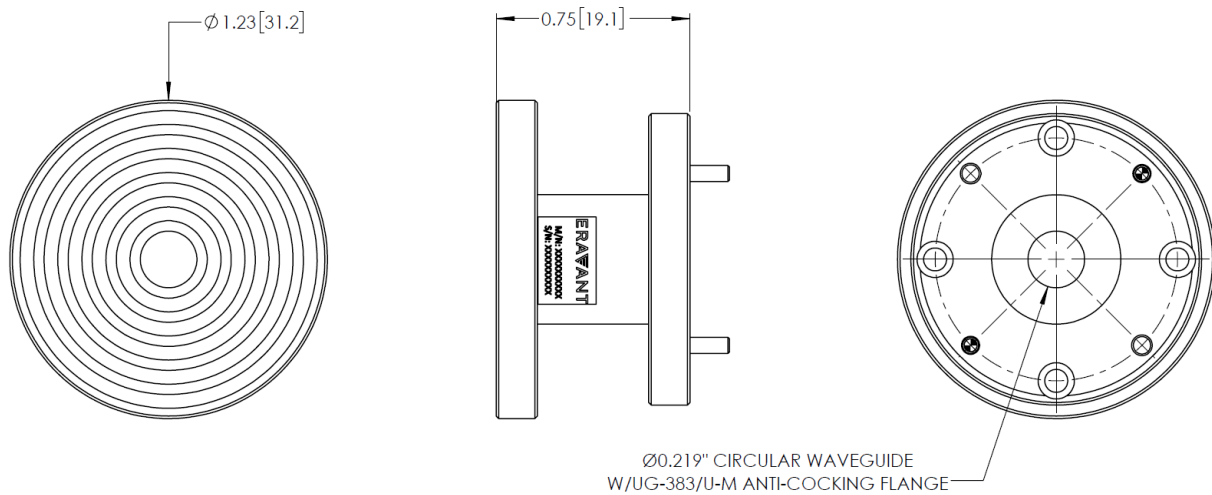
Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	40 GHz		60 GHz
Gain		10 dBi	
3 dB Beamwidth, E-plane @ 50 GHz		60°	
3 dB Beamwidth, H-plane @ 50 GHz		60°	
Sidelobe Levels		-30 dB	
Return Loss		20 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
Antenna Port	0.219" Diameter Circular Waveguide with UG-383/U-M Anti-Cocking Flange
Material	Brass
Finish	Gold Plated
Weight	1.8 Oz
Outline	AH-CU10-219



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

Caution:

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

