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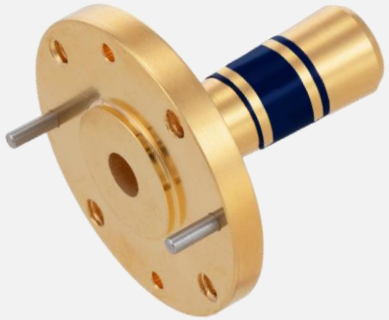

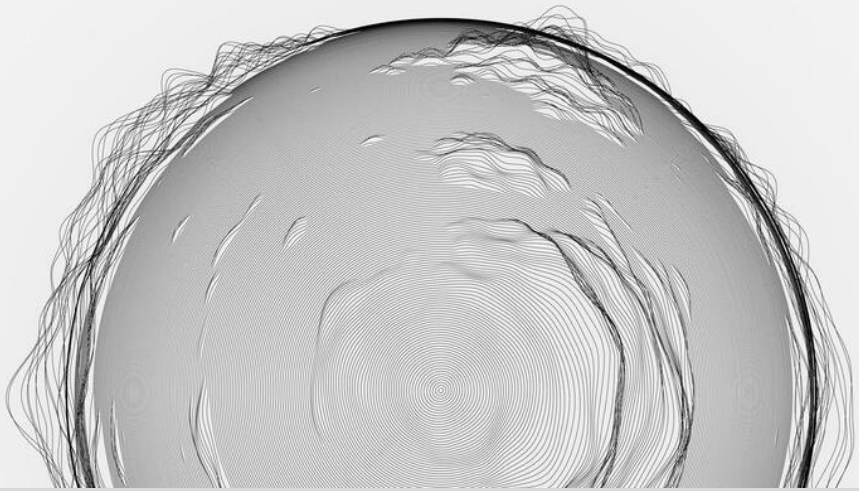

HP-HA-19CG-V5058-C10

Conical Gain Horn Waveguide Antenna

DESCRIPTION

Waveguide conical gain horn antennas are used in a wide variety of applications due to their high-power handling capability, low loss, high directivity, and near-constant electrical performance across a broad bandwidth. The HP-HA-19CG-V5058-C10 horn antenna operates from 50 GHz to 58 GHz with a nominal gain of 10 dBi. This conical gain horn antenna has a gold-plated brass body and a precision tolerance UG-383/U-Mod round cover flange. The HP-HA-19CG-V5058-C10 WR-19 waveguide conical gain horn antenna offers low gain variation across its operating frequency range.

FEATURES

- Circular Waveguide Interface
- 50 GHz to 58 GHz
- 10 dBi Nominal Gain
- UG-383/U-Mod Round Cover Flange

APPLICATIONS

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems

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ELECTRICAL SPECIFICATIONS

Description	Min	Typ	Max	Units
Frequency Range	50		58	GHz
Nominal Gain		10		dBi
Horizontal 3dB Beam Width		58		Deg
Vertical 3dB Beam Width		53		Deg
VSWR		1.15:1		

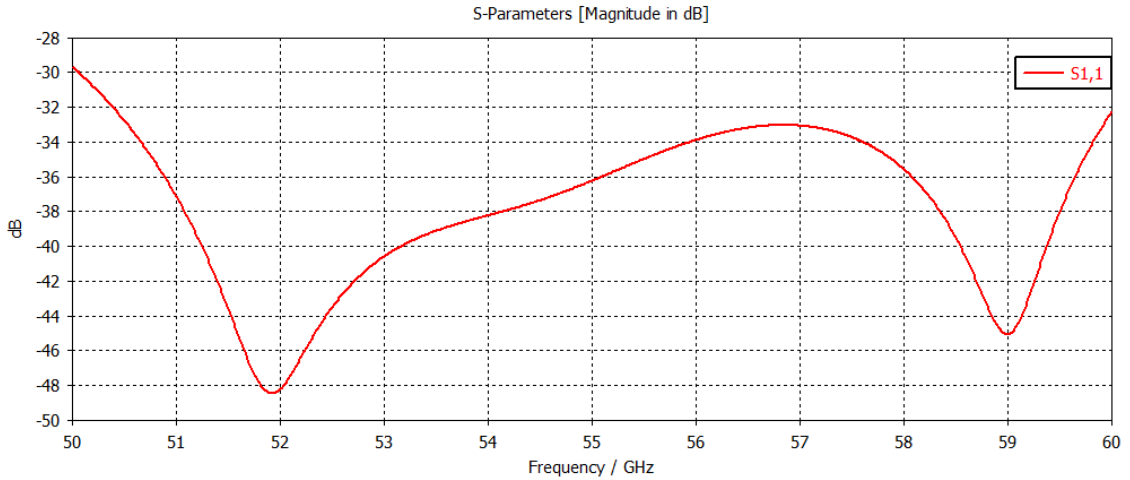
MECHANICAL SPECIFICATIONS

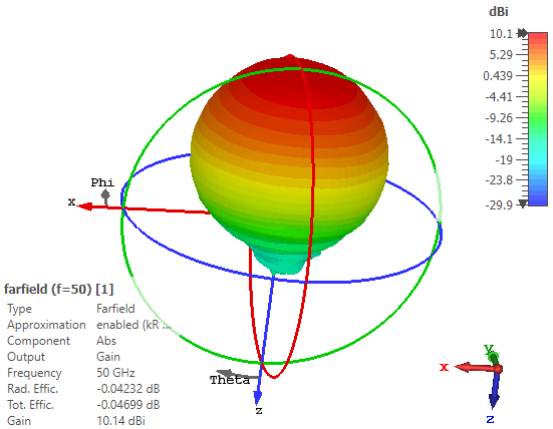
Description	
Length	1.16 in [29.46 mm]
Width/Diameter	0.125 in [28.58 mm]
Height	0.125 in [28.58 mm]
Weight	0.04 lbs [18.14 g]

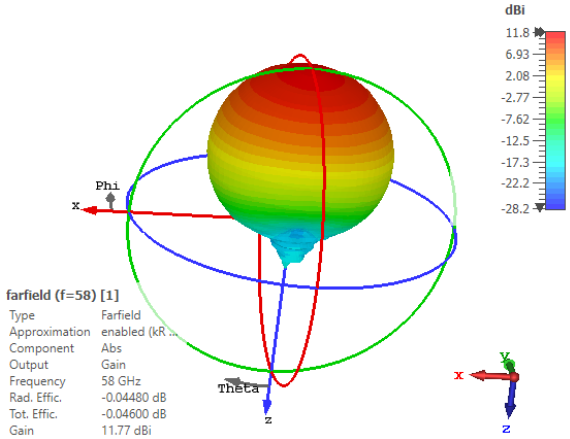
WAVEGUIDE INTERFACE

Description	
Waveguide Size	WR-19
Flange Type	Round Cover
Flange Designation	UG-383/ U-Mod
Body Material and Plating	Aluminum, Gold

TYPICAL PERFORMANCE







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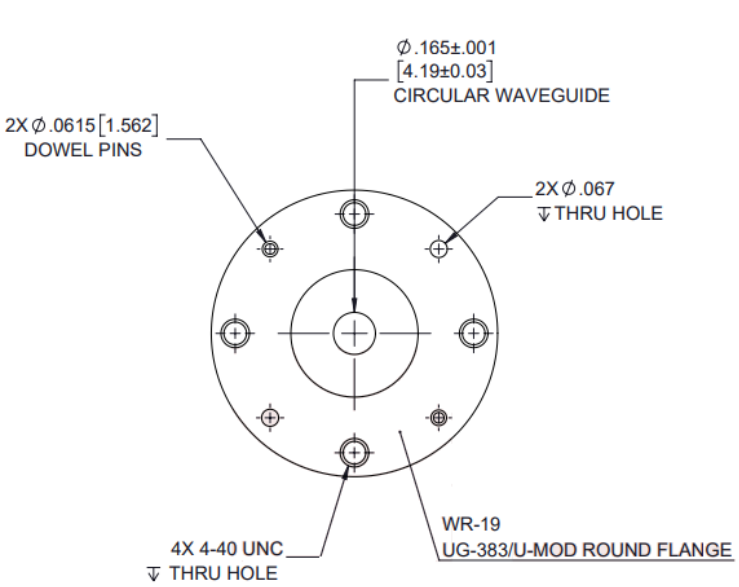
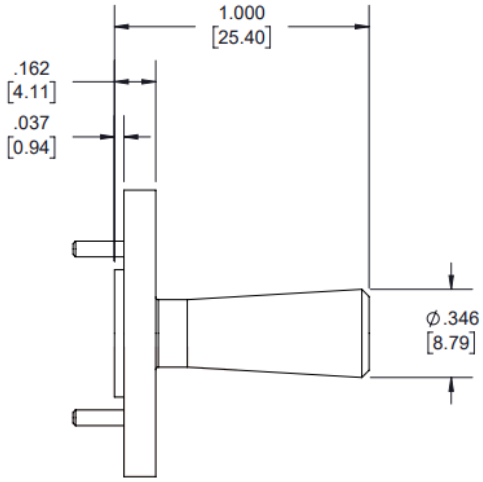
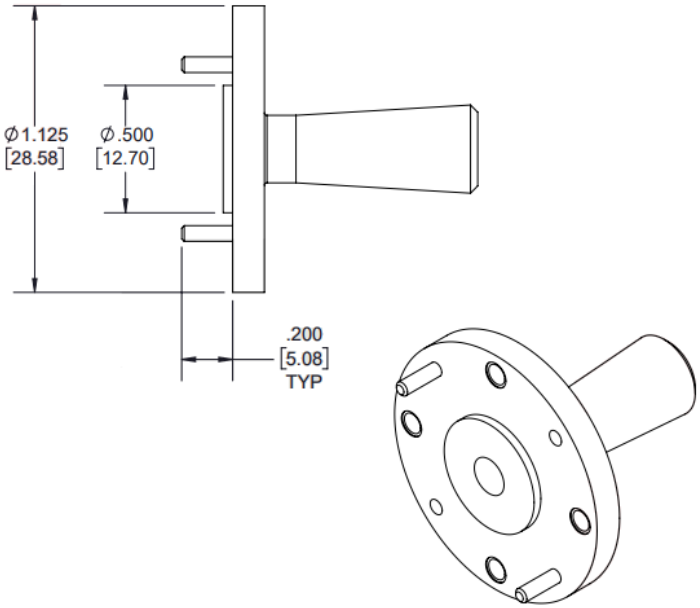
MECHANICAL OUTLINE

Unless otherwise specified, all dimensions are in inches [millimeters].







NOTE:

- All data presented is simulated by a full EM simulator. Halil Paşalıoğlu recommends using simulated data over measured for standard gain horn antenna for accuracy. See Blog here for further information.
- The antenna electrical performance is guaranteed through accurate mechanical tolerance control. Each antenna is examined by CMM (coordinate Measuring Machine) inspection and measurement process.
- A calibration certificate can be issued with a fee under part number **HP-HA-19CG-E5058-C10**.
- Halil Paşalıoğlu 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.

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