

HP-HA-19SG-U4060-R20

Standard Gain Horn Waveguide Antenna

DESCRIPTION

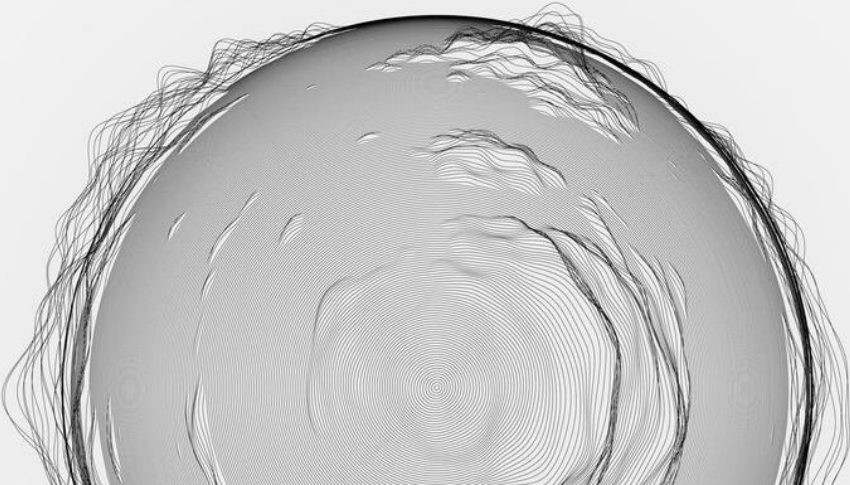
Waveguide standard gain horn antennas are used in a wide variety of applications due to their high-power handling capability, low loss, high directivity, and near-constant electrical performance across a broad bandwidth. The HP-HA-19SG-U4060-R20 horn antenna operates from 40 GHz to 60 GHz with a nominal gain of 20 dBi. This standard gain horn antenna has a gold-plated brass body and a precision tolerance UG-383/U-Mod round cover flange. The HP-HA-19SG-U4060-R20 WR-19 waveguide standard gain horn antenna offers low gain variation across its operating frequency range.

FEATURES

- Circular Waveguide Interface
- 40 GHz to 60 GHz
- 20 dBi Nominal Gain
- UG-385/U-Mod Round Cover Flange

APPLICATIONS

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



ELECTRICAL SPECIFICATIONS

Description	Min	Typ	Max	Units
Frequency Range	40		60	GHz
Nominal Gain		20		dBi
Horizontal 3dB Beam Width		16		Deg
Vertical 3dB Beam Width		14		Deg
VSWR		1.15:1		

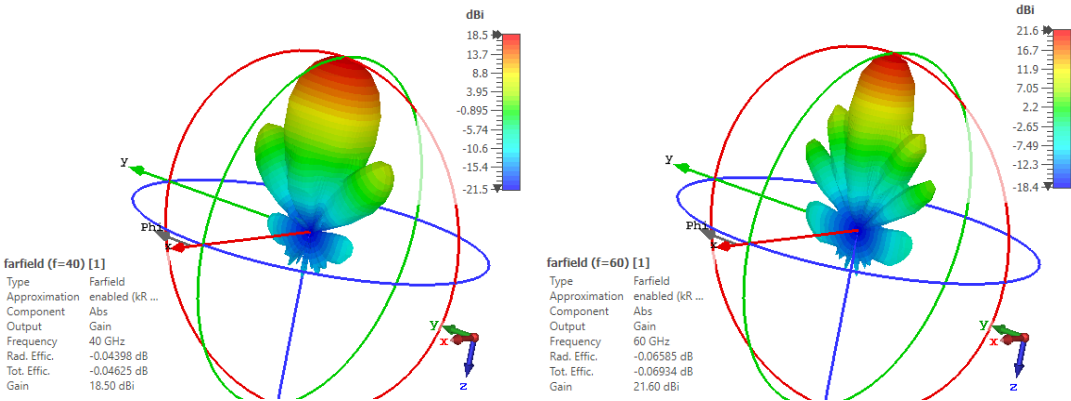
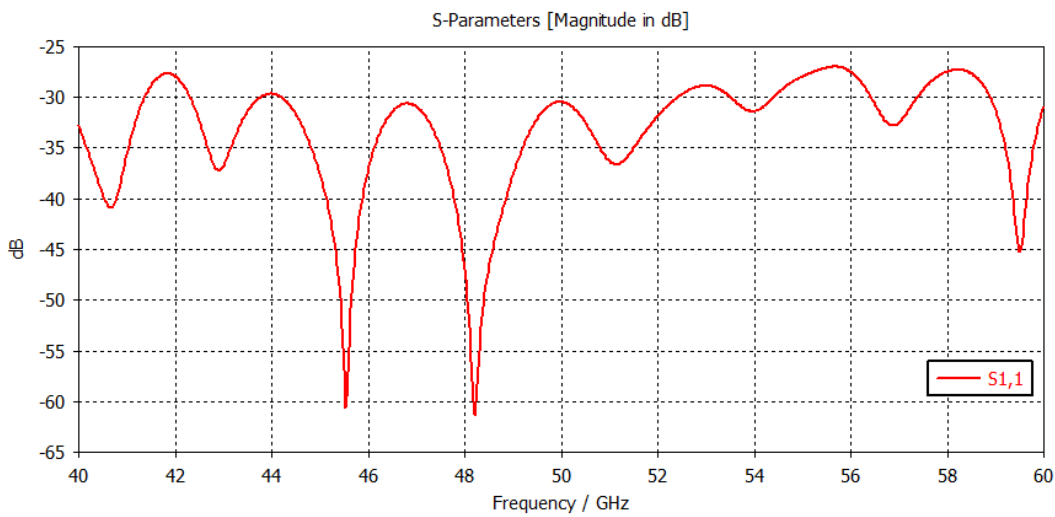
MECHANICAL SPECIFICATIONS

Description	
Length	2.66 in [67.56 mm]
Width/Diameter	0.125 in [28.58 mm]
Height	0.125 in [28.58 mm]
Weight	0.063 lbs [28.58 g]

WAVEGUIDE INTERFACE

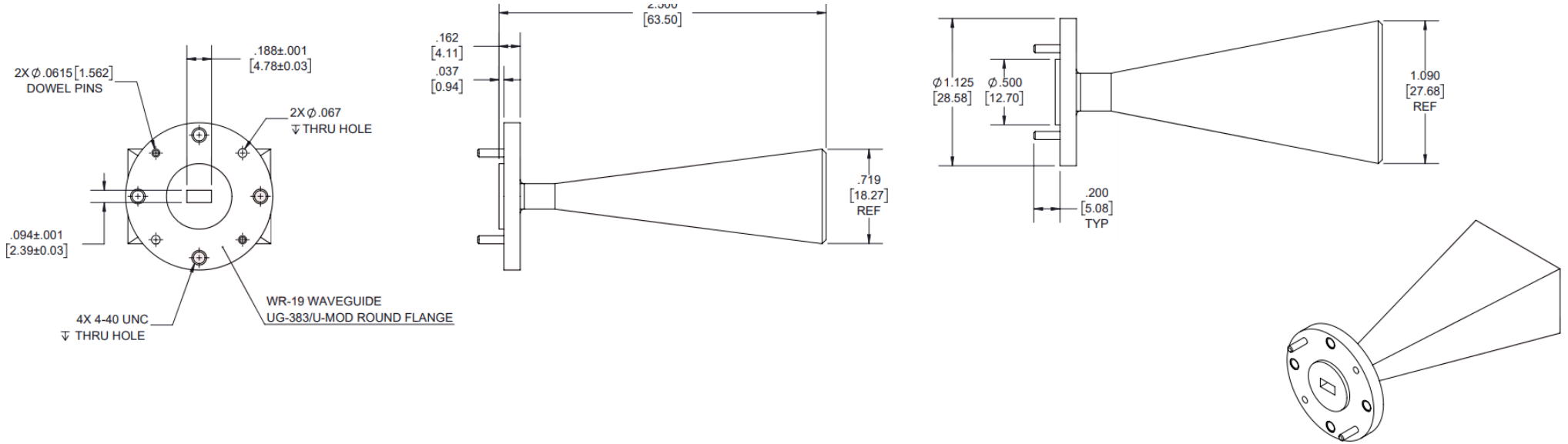
Description	
Waveguide Size	WR-19
Flange Type	Round Cover
Flange Designation	UG-383/ U-Mod
Body Material and Plating	Brass, Gold

TYPICAL PERFORMANCE



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-19SG-U4060-R20**.
- 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.

