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HP-HA-19SG-U4060-R15

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-R15 horn antenna operates from 40 GHz to 60 GHz with a nominal gain of 15 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-R15 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
- 15 dBi Nominal Gain
- UG-385/U-Mod Round Cover Flange

APPLICATIONS

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

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. We reserve the right to make such changes as required. Unless otherwise stated, all specifications are nominal. We do not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and we do not assume any liability arising out of the use of any part or documentation.

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ELECTRICAL SPECIFICATIONS

Description	Min	Тур	Max	Units
Frequency Range	40		60	GHz
Nominal Gain		15		dBi
Horizontal 3dB Beam Width		32		Deg
Vertical 3dB Beam Width		32		Deg
VSWR		1.15:1		

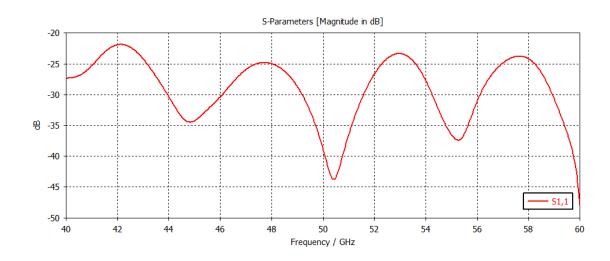
MECHANICAL SPECIFICATIONS

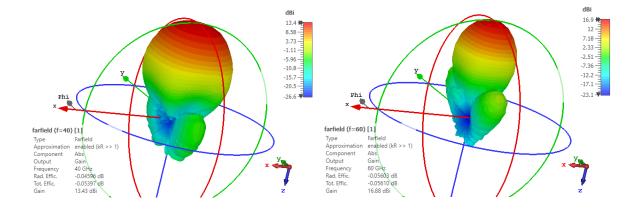
Description	
Length	1.66 in [42.16 mm]
Width/Diameter	0.125 in [28.58 mm]
Height	0.125 in [28.58 mm]
Weight	0.036 lbs [16.33 g]

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





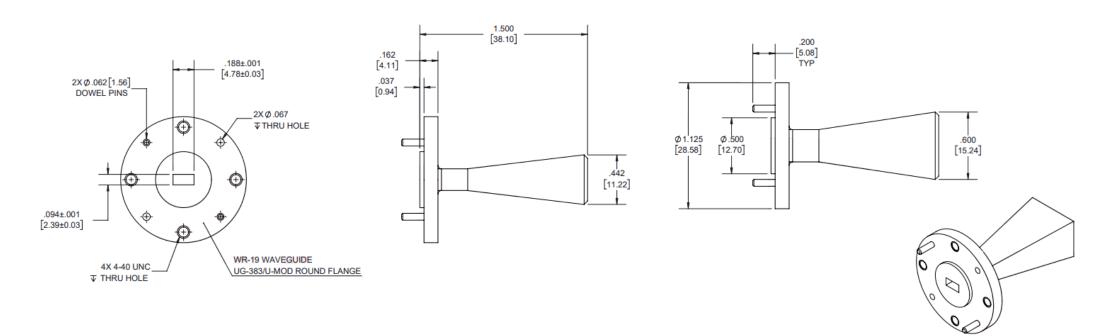
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MECHANICAL OUTLINE

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-19SG-U4060-R15.
- 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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