

HP-HA-112SG-X710-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-112SG-X710-R20 horn antenna operates from 7.05 GHz to 10 GHz with a nominal gain of 20 dBi. This pyramidal horn antenna has an aluminum body and a precision tolerance UG-51/U-Mod round flange. The HP-HA-112SG-X710-R20 WR-112 waveguide standard gain horn antenna offers low gain variation across its operating frequency range.

FEATURES

- Rectangular Waveguide Interface
- 7.05 GHz to 10 GHz
- 20 dBi Nominal Gain
- UG-51/U-Mod Flange

APPLICATIONS

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

ELECTRICAL SPECIFICATIONS

Description	Min	Typ	Max	Units
Frequency Range	7		10	GHz
Nominal Gain		10		dBi
Horizontal 3dB Beam Width		19.3		Deg
Vertical 3dB Beam Width		19.3		Deg
VSWR		1.3:1		

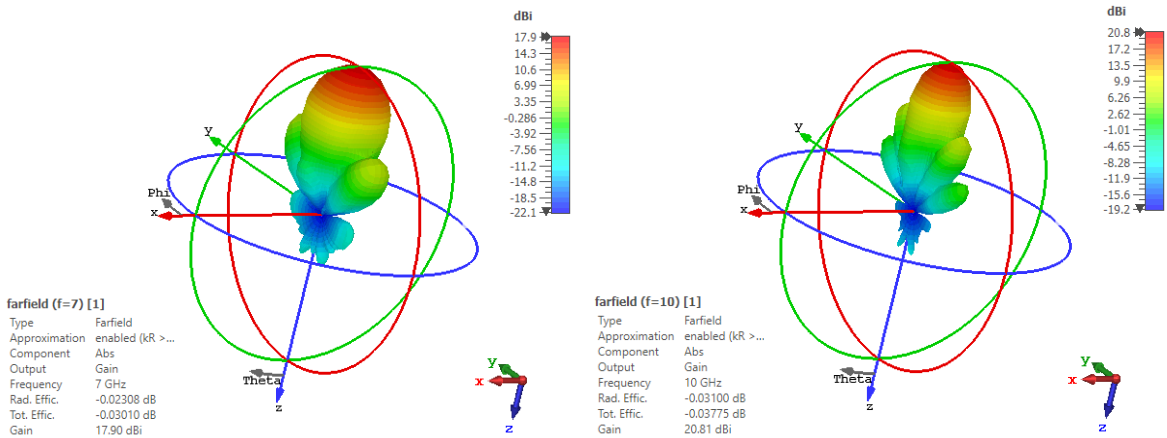
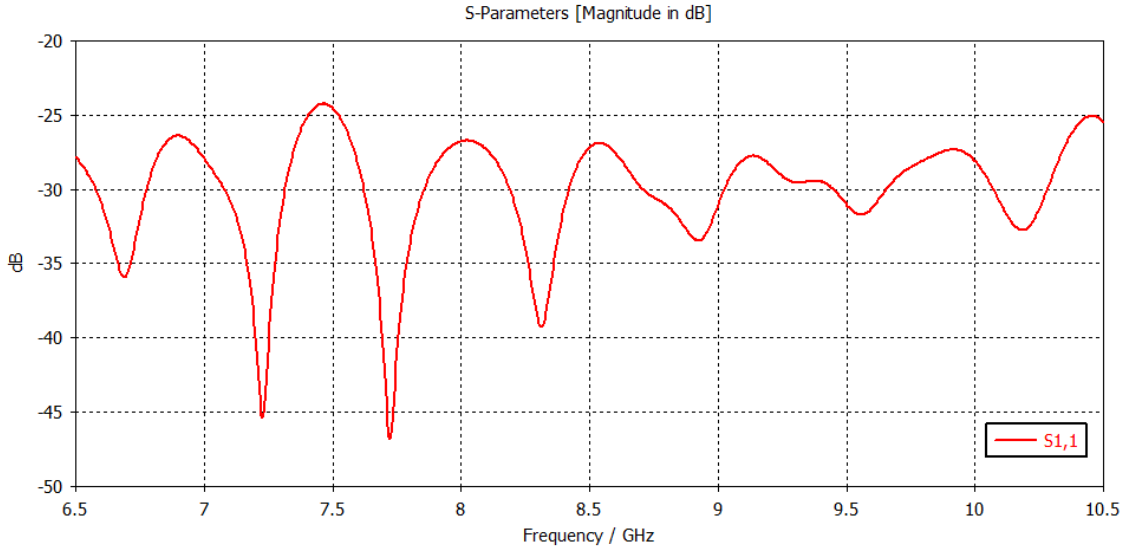
MECHANICAL SPECIFICATIONS

Description	
Length	10.78 in [273.8 mm]
Width/Diameter	4.97 in [126.2 mm]
Height	3.64 in [92.45 mm]
Weight	0.805 lbs [365.14 g]

WAVEGUIDE INTERFACE

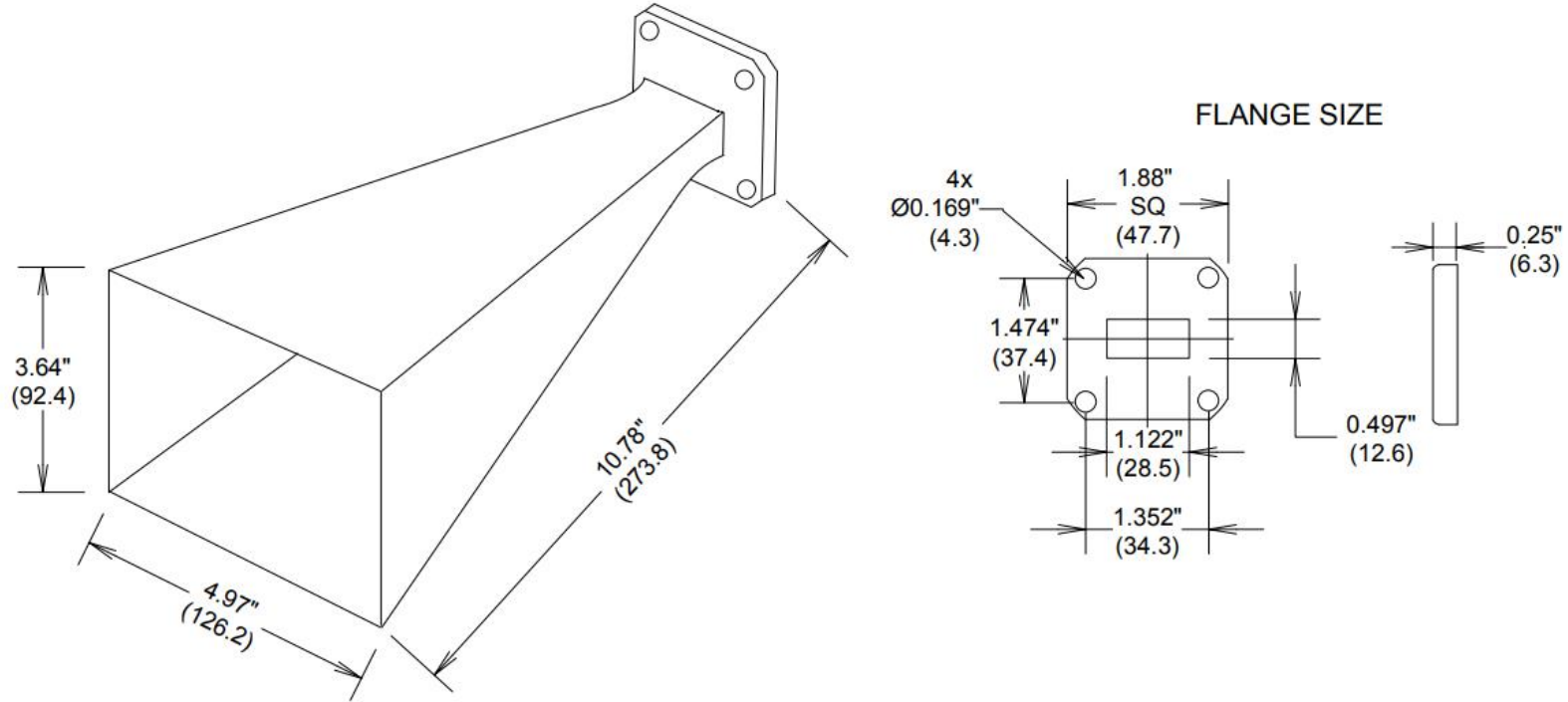
Description	
Waveguide Size	WR-112
Flange Type	Round Cover
Flange Designation	UG-51/ U-Mod
Body Material	Aluminum

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-112SG-X710-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.

