



## HP-HA-28SG-Ka2640-R10

### Standard Gain Horn Waveguide Antenna

#### DESCRIPTION

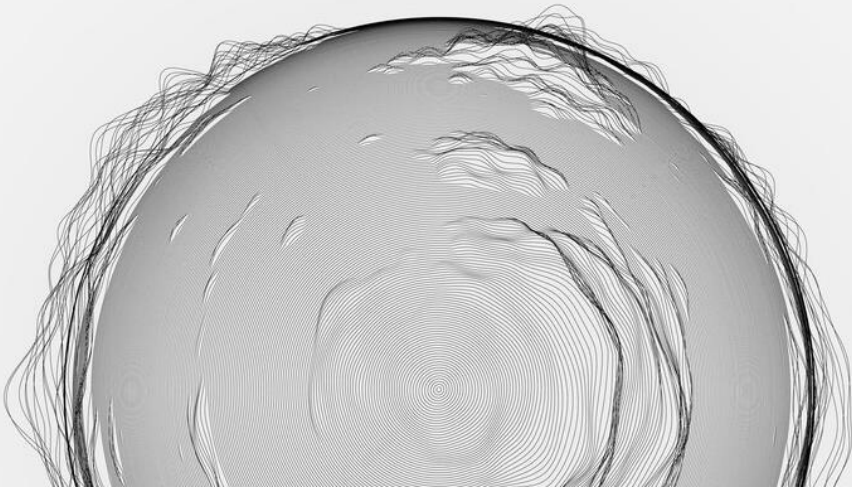
Waveguide standard gain horn antennas are used in a wide variety of applications due to their high-power handling capability, low loss, high directivity, and near-constant electrical performance across a broad bandwidth. The HP-HA-28SG-Ka2640-R10 horn antenna operates from 26 GHz to 40 GHz with a nominal gain of 10 dBi. This conical gain horn antenna has a gold-plated brass body and a precision tolerance UG-599/U-Mod square cover flange. The HP-HA-28SG-Ka2640-R10 WR-28 waveguide standard gain horn antenna offers low gain variation across its operating frequency range.

#### FEATURES

- Rectangular Waveguide Interface
- 26 GHz to 40 GHz
- 10 dBi Nominal Gain
- UG-599/U-Mod Square Cover Flange

#### APPLICATIONS

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



ELECTRICAL SPECIFICATIONS

Description	Min	Typ	Max	Units
Frequency Range	26		40	GHz
Nominal Gain		10		dBi
Horizontal 3dB Beam Width		54		Deg
Vertical 3dB Beam Width		54		Deg
VSWR		1.15:1		

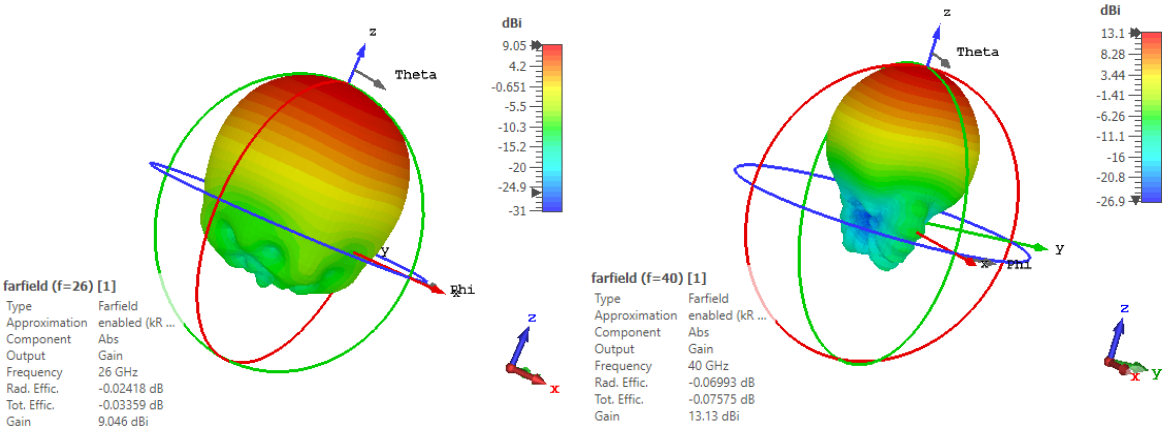
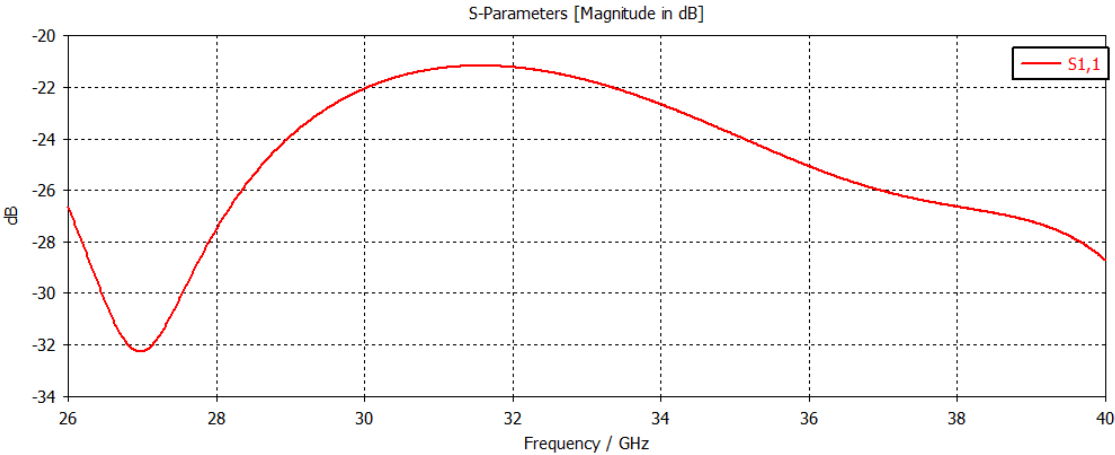
MECHANICAL SPECIFICATIONS

Description	
Length	1.00 in [25.40 mm]
Width/Diameter	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	0.018 lbs [8.16 g]

WAVEGUIDE INTERFACE

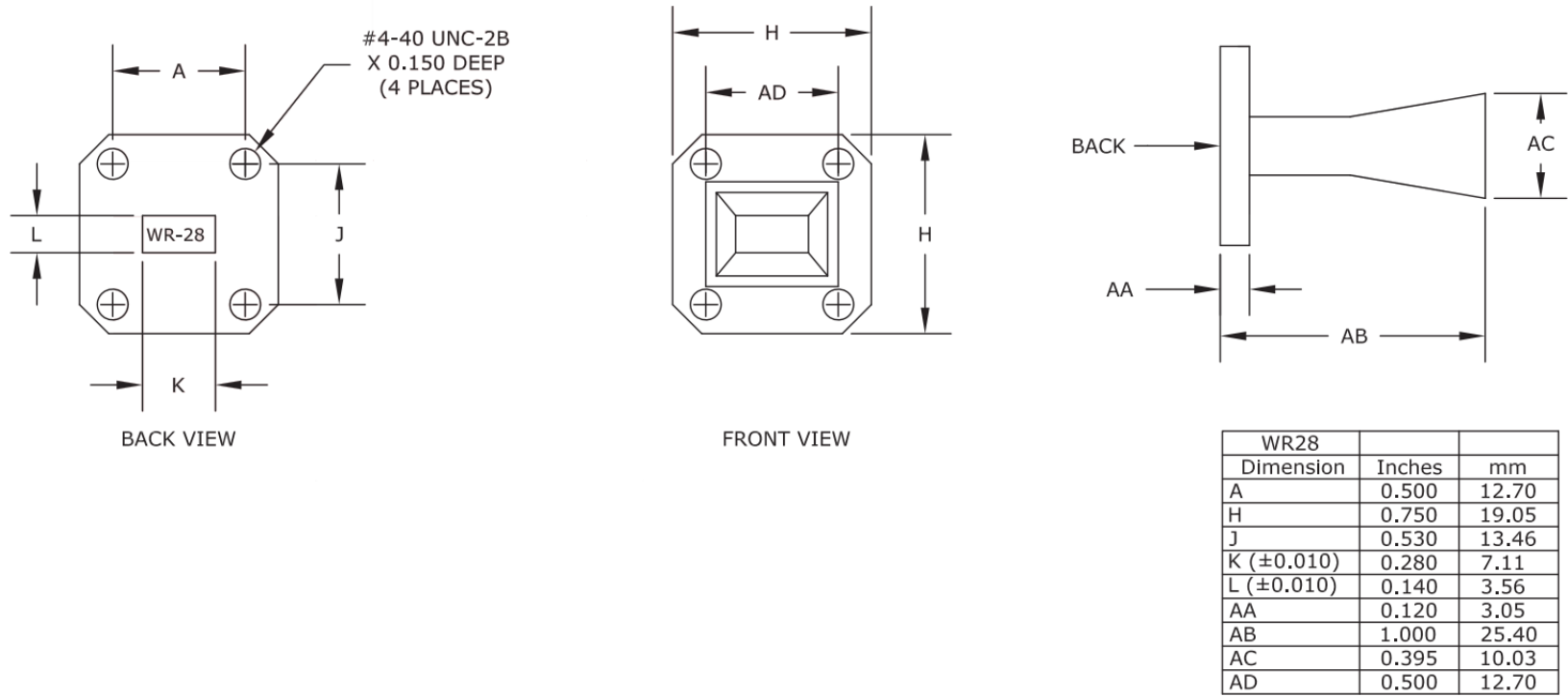
Description	
Waveguide Size	WR-28
Flange Type	Square Cover
Flange Designation	UG-599/ U-Mod
Body Material and Plating	Brass, Gold

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-28SG-Ka2640-R10**.
- 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.

