

Part No:

HWSGH28-23-ES



WR-28 Rectangular Standard Gain Horn Antenna 23 dBi Typical Gain, Ka Band – 26.5 to 40 GHz

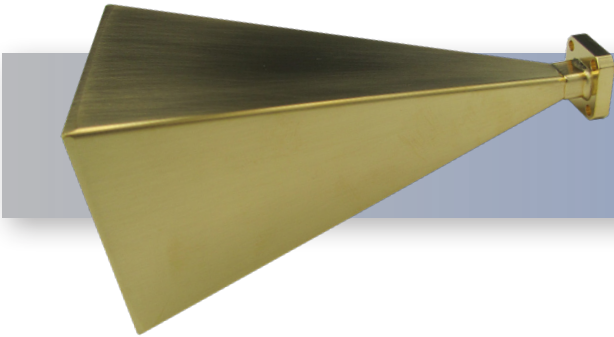
Electrical

• Impedence	50 Ohms
• Frequency Range	26.5-40 GHz
• VSWR	1.10:1 Max
• Input	WR-28 Waveguide
• Flange	UG-599/U
• Series	Directional
• Polarity	Vertical
• Temperature Range	-55°C - 85°C

Mechanical

• Body Material	Gold Plated Electroformed Copper
• WG A DIM	0.2800 inch
• WG B DIM	0.1400 inch

Note: All plating thickness values are in micro-inches.



HWSGH28-23-ES is an Ka-band WR-28 waveguide standard rectangular gain horn antenna that operates from 26.5 GHz to 40 GHz. The antenna offers 23 dBi typical gain, precisely electroformed over a mandrel and gold plated. These horns have a pyramidal shape with a rectangular aperture. The standard gain horn antenna supports linear polarized waveforms. The input of this antenna is a WR-28 waveguide with UG-599/U flange. The standard gain horn antenna is used for antenna range calibration and general-purpose system set ups.

Horns with different gain values can be special ordered. Rectangular Horns are available in sizes WR3 to WR42.

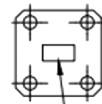
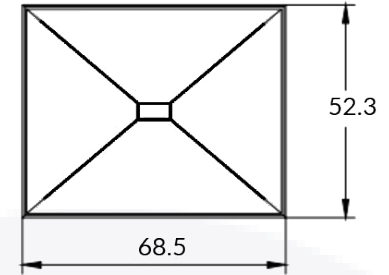
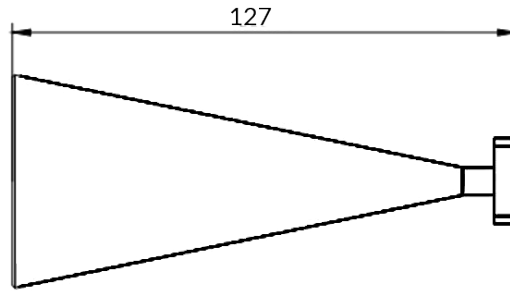
Applications

- Low F/D Antennas
- Surveillance Systems
- Offset Feed Antenna

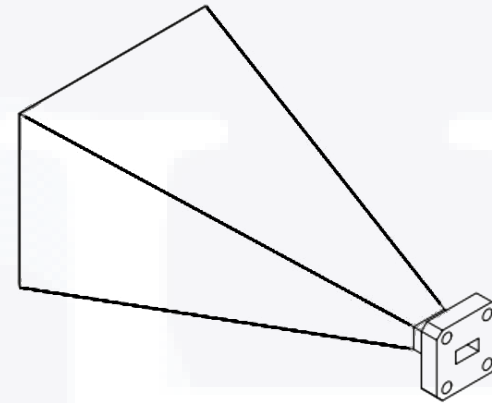
HASCO's Standard Rectangular Gain Horns are used in a wide variety of applications, such as antenna testing and RF radiation pattern measurement. HASCO gain horns function as a calibration standard or as reference for antenna gain measurement. They are also used as feed horns for lens and reflector antennas or stand-alone antennas in subsystems.

WR-28 Rectangular Standard Gain Horn Antenna, 23 dBi Typical Gain, Ka Band | 26.5-40 GHz | Outline Drawing

Measurement (inches)	
Length	5.000
Width	2.712
Height	2.069
Flange	0.750 Square



WR-28 WAVEGUIDE
W/UG-599/U FLANGE



LTR	DESCRIPTION	DATE	APPR.	DRAWN BY: NS	CHECKED BY: JMS
-	RELEASE	07/22	TAC	APPROVED BY: TAC	
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