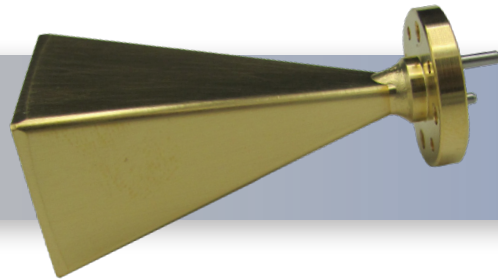


Part No:

HWSGH10-23-ER



WR-10 Rectangular Standard Gain Horn Antenna 23 dBi Typical Gain, W Band – 75 to 110 GHz

HWSGH10-23-ER is a W-band WR-10 waveguide standard rectangular gain horn antenna that operates from 75 GHz to 110 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-10 waveguide with UG-387/U MOD 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.

Electrical

• Impedence	50 Ohms
• Frequency Range	75 - 110 GHz
• VSWR	1.10:1 Max
• Input	WR-10 Waveguide
• Flange	UG-387/U MOD
• Series	Directional
• Polarity	Vertical
• Temperature Range	-55°C - 85°C

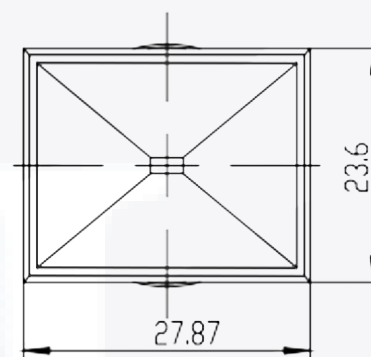
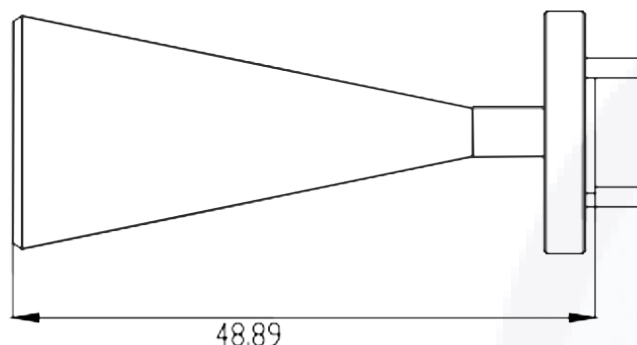
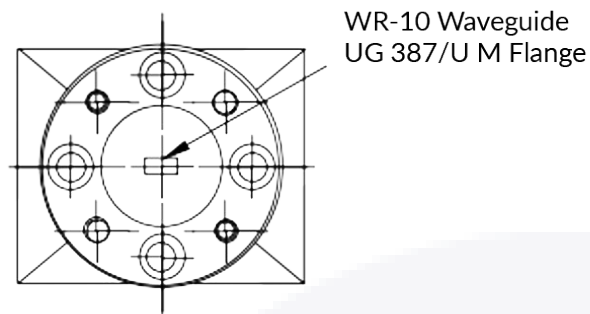
Mechanical


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

• Body Material	Gold Plated Electroformed Copper
• WG A DIM	0.1000 inch
• WG B DIM	0.0500 inch

WR-10 Rectangular Standard Gain Horn Antenna, 23 dBi Typical Gain, W Band | 75 - 110 GHz | Outline Drawing

Measurement (inches)	
Length	1.940
Width	0.969
Height	0.740
Flange	0.750 Round



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