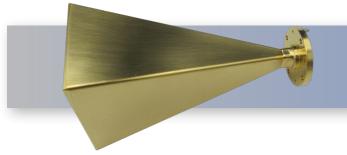
## HWSGH22-23-ER





WR-22 Rectangular Standard Gain Horn Antenna 23 dBi Typical Gain, Q Band – 33 to 50 GHz

HWSGH22-23-ER is an Q-band WR-22 waveguide standard rectangular gain horn antenna that operates from 33 GHz to 50 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-22 waveguide with UG-383/U MOD flange. The standard gain horn antenna is used for antenna range calibration and generalpurpose 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 standalone antennas in subsystems.

Electrical	
Impedence	50 Ohms
Frequency Range	33-50 GHz
• VSWR	1.10:1 Max
• Input	WR-22 Waveguide
• Flange	UG-383/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	0.2240 inch
• WG B DIM	0.1120 inch

## WR-22 Rectangular Standard Gain Horn Antenna, 23 dBi Typical Gain, Q Band | 33-50 GHz | Outline Drawing

	Measur	ement (	Inches	5)					
	Length		4.070		101 (				
ſ	Width		2.170		<b>–</b> 101.6				
	Height		1.656		_		_		
	Flange	1.	.125 Rou	Ind					
								55.1	42.1
					+ _	— WR-22 WAVEGUIDE W/UG-383/U FLANGE			00
T	DESCRIPTION	DATE	APPR.	DRAWN BY: NS	CHECKED BY: JMS	W/UG-383/U FLANGE		5214 Bonsai Street •	Moorpark (A 930)
Ŧ	DESCRIPTION	DATE 07/22	APPR. TAC	DRAWN BY: NS APPROVED BY: TAC	CHECKED BY: JMS	W/UG-383/U FLANGE	CO, INC	5214 Bonsai Street • (888) 498-3242 • sal	es@hasco-inc.com
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