

## Corrugated Horn Antennas

### FEATURES:

- ❖ Frequency coverage: 8.2 to 170GHz
- ❖ Rectangular and circular waveguide interfaces
- ❖ 35% typical operating bandwidth
- ❖ Polarization Insensitive
- ❖ Low sidelobe levels
- ❖ Low return loss



**CGA Series**

### APPLICATIONS:

- ❖ Feeds for lens and reflector antennas
- ❖ Rapid system setups
- ❖ Engineering setups

### DESCRIPTION:

Cernexwave's CGA Corrugated horn are offered in both standard and custom build models with either circular or rectangular waveguide interfaces.

The standard models offer 21 dBi nominal gain, 13 degrees half power beamwidth and 25 dB sidelobe level at center of frequency band and cover the frequency range of 8.2 to 170 GHz. In addition to the standard models listed, other frequency or gain value are available as custom models.

### SPECIFICATIONS:

Waveguide Band	X	Ku	K	Ka	Q	U	V	E	W	F	D
Waveguide Size	WR-90	WR-62	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10	WR-8	WR-6
Frequency Range (GHz)	8.0 to 12.0	12.4 to 18.0	18.0 to 26.5	26.5 to 40.0	33.0 to 55.0	40.0 to 60.0	50.0 to 75.0	60.0 to 90.0	75.0 to 110.0	90.0 to 140.0	110.0 to 170.0
Gain (dB) typ.	21	21	21	21	21	21	21	21	21	21	21
Beamwidth (3dB)	E-plane 22 degree typ. / H-plane 26 degree typ.										
Sidelobe	E-plane 25 dB typ. / H-plane 25 dB typ.										
Bandwidth	35% typ.										

CONTACT THE FACTORY FOR SPECIAL REQUIREMENTS

### HOW TO ORDER:

Specify Model Number      **CGA – WG LF HF GN-- XX**

WG: Waveguide

LF: Low End Frequency

HF: High End Frequency

GN: Gain

XX: To be specified by the factory

**Example:** To order a Corrugated Horn, 9.0-11.0GHz with 21dB Gain Rectangular Flange Interface, specify, CGA-90091121-XX.

CERNEXWAVE RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE