

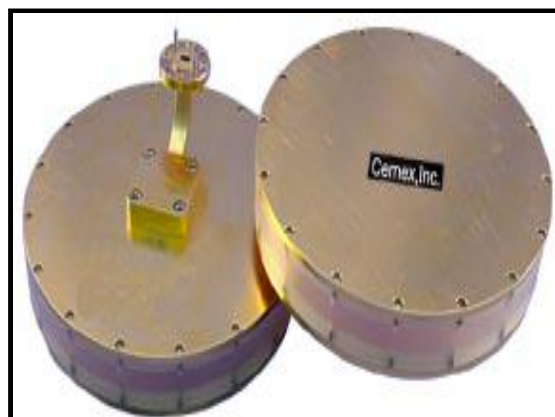
## Omni Directional Antennas

### FEATURES:

- ❖ Frequency coverage: 18 to 110 GHz
- ❖ Coaxial and rectangular waveguide interfaces
- ❖ 360° azimuth coverage
- ❖ Vertically polarized
- ❖ Various vertical beamwidth

### APPLICATIONS:

- ❖ Communication Links
- ❖ EW Systems
- ❖ Indoor local area networks
- ❖ Monitoring and surveillance systems



**CODA series**

### DESCRIPTION:

Cernex's CODA series omni directional antennas are offered in either coaxial or rectangular waveguide interfaces. These antennas are offered in seven common waveguide bands to cover the frequency range from 18 to 110 GHz. The omni directional antennas provide a complete 360° azimuth coverage with  $\pm 1.0$  dB angular gain flatness. While vertical beamwidth of the catalog models are typically fixed at 30°, custom designed models with vertical beamwidth from 10 to 30° can be realized. The bandwidth of these omni directional antennas is 10% without noticeable performance degradations.

The omni directional antennas offered are constructed with precisely machined housing and radome. Catalog models are offered with waveguide interface only.

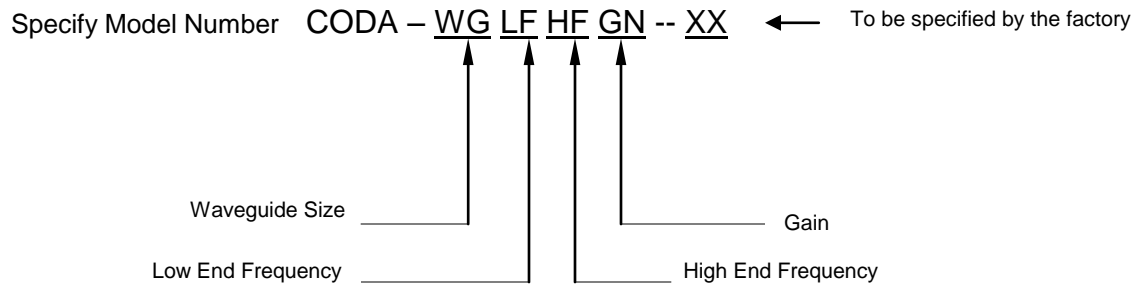
### SPECIFICATIONS:

Waveguide Band	K	Ka	Q	U	V	E	W
Waveguide Size	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10
Frequency Range (GHz)	23.0 to 25.0	34.0 to 36.0	38.0 to 42.0	40.0 to 44.0	58.0 to 62.0	74.0 to 80.0	90.0 to 98.0
Vertical Beamwidth	30°	30°	30°	30°	30°	30°	30°
Gain	3.0 dB	3.0 dB	2.5 dB	2.5 dB	2.0 dB	2.0 dB	2.0 dB
VSWR	2:1	2:1	2:1	2:1	2:1	2:1	2:1

NOTE: COAX CONNECTOR INTERFACE AVAILABLE.



HOW TO ORDER:



**Example:** To order an Omni Directional Antenna with WR-15, specified CODA-15586220-XX

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