

Conical Horn Antennas

FEATURES:

- ❖ Available from 6 to 220 GHz
- ❖ Nominal Gain of 15, 20, and 25 dbi
- ❖ Made with Precise Dimensional Tolerance Control
- ❖ Gain Calibration is Accurate to 0.5 dB
- ❖ Over Full Waveguide Bandwidth



CCA Series

DESCRIPTION:

Cernex's CCA series conical horns are fabricated with very close tolerances to ensure the precision of every horn manufactured by Cernex. Each unit is supplied with a short section of circular waveguide and terminated in a standard round flange. Conical horns can be used to determine experimentally the gain of other antennas by using the substitution method. The conical horn and the antenna under test are alternately connected to a well-matched detector system in order to compare their relative power levels. The power level difference is then added to the appropriate level of the calibration curve to determine the absolute gain of the antenna under test. Conical horns are also useful as power monitors in radar transmitter test, known-gain radiators in field propagation studies, and transmitting or receiving antennas in test bench applications. The completed units are gold-plated. **Please Note:** 10, 15, 20 dB models are available in all bands.

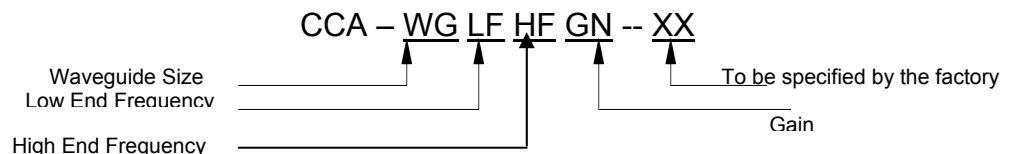
SPECIFICATIONS:

Waveguide Band		K	Ka	Q	U	V	E	W	F	D	G	
Waveguide Size		WR-62	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10	WR-8	WR-7	WR-5
Frequency Range (GHz)		12.4 to 18	18 to 26.5	26.5 to 40	33 to 50	40 to 60	50 to 75	60 to 90	75 to 110	90 to 140	110 to 170	140 to 220
Pipe Diameter		(see note)										
A	in	Consult Cernex for Dimensions Due to Wide Variety of Circular Waveguide Sizes and Gain Options										
	mm											
B	in	Consult Cernex for Dimensions Due to Wide Variety of Circular Waveguide Sizes and Gain Options										
	mm											

Notes: Please refer to chart for correct pipe size based on center frequency and bandwidth

HOW TO ORDER:

Specify Model Number



Example: To order WR-15 with a frequency band of 5053GHz, and a gain of 15 dB, specify CCA-15505315-XX.

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE