

## Wide Angle Scalar Feed Horns

### FEATURES:

- ❖ Low VSWR
- ❖ Wide Beamwidths
- ❖ Polarization Insensitive
- ❖ Partial Waveguide Bandwidths

### APPLICATIONS:

- ❖ Low F/D Antennas
- ❖ Surveillance Systems
- ❖ Offset Feed Antennas



**CWA Series**

### DESCRIPTION:

**Cernexwave's CWA series** wide angle scalar feed horn or also called a choke horn, has been designed to be used in applications where wide beamwidth (55 Deg.) is required such as low F/D ratios of .5 or .4 in parabolic reflectors and offset feed applications. **Please Note:** CWA series Feed Horns are normally supplied with a standard rectangular waveguide, circular is also available.

### SPECIFICATIONS:

Waveguide Band		X	X/Ku	Ku	K	Ka	Q	U	V	E	W	F
Waveguide Size		WR - 90	WR - 75	WR - 62	WR - 42	WR - 28	WR-22	WR-19	WR-15	WR-12	WR-10	WR - 8
Frequency Range (GHz)		8.2 to 12.4	10.0 to 15.0	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
Bandwidth (GHz) Typ		2		3	3	5	5	5	5	7	7 to 10	
A	in	-	-	1.8	1.5	1.5	1.2	1.0	0.80	0.80	0.60	0.60
	mm	-	-	45.7	38.1	38.1	30.5	25.4	20.3	20.3	15.2	15.2
B	in	-	-	2.72	1.86	1.17	1.00	0.83	0.66	0.55	0.45	0.36
	mm	-	-	69.1	47.2	29.74	25.4	21.1	16.8	14.0	11.4	9.10
Typical Electrical Specifications		Beamwidth : E-Plane 55 Deg										
		3dB : H-Plane 56 Deg										
		Sidelobes : E-Plane -25dB										
		Sidelobes : H-Plane -25dB										

### HOW TO ORDER:

Specify Model Number CWA – WG LF HF-- XX

WG: Waveguide

LF: Low End Frequency

HF: High End Frequency

XX: To be specified by the factory

**Example:** To order a Wide Angle Scalar Feed Horn with a waveguide size of 19,specify CWA-194060-XX.

CERNEXWAVE RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE