

Scalar Feed Horns

FEATURES:

- ❖ Low VSWR
- ❖ Wide Bandwidths
- ❖ Narrow Beamwidths
- ❖ Polarization Insensitive

APPLICATIONS:

- ❖ Feeds for Scalar Lens and Cassegrain Antennas



DESCRIPTION:

CFH Series

Cernexwave's CFH series scalar feed horn has been designed to be used in lens illumination such as scalar lens antennas and cassegrain antennas. Low sidelobes are inherent in this type of feed. Please consult Cernex for other available beamwidths.

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	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	7	7	7 to 10	
A	in	-	-	5.00	3.50	2.75	2.50	2.25	1.75	1.62	1.50	---
	mm	-	-	127.0	88.9	69.9	63.5	57.2	44.5	41.2	38.1	---
B	in	-	-	3.12	2.15	1.52	1.25	1.12	0.88	0.75	0.62	---
	mm	-	-	79.3	54.6	38.6	31.8	28.5	22.4	19.0	15.8	---
Typical Electrical Specifications		3dB Beamwidth : E-Plane 22 Deg										
		H-Plane 26 Deg										
		Sidelobes : E-Plane -25dB										
		H-Plane -25dB										

CONTACT THE FACTORY FOR SPECIAL REQUIREMENTS

HOW TO ORDER:

Specify Model Number CFH – 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 flange size of 19 and a frequency range of 40-60 GHz, specify CFH-194060-XX.

CERNEXWAVE RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE