

Scalar Feed Horns

FEATURES:

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

APPLICATIONS:

- ❖ Feeds for Scalar Lens and Cassegrain Antennas



CFH Series

DESCRIPTION:

Cernex'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
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		Beamwidth : E-Plane 22 Deg										
		3dB : H-Plane 26 Deg										
		Sidelobes : E-Plane -25dB										
		Sidelobes : H-Plane -25dB										
		Bandwidth: 35%										

CONTACT THE FACTORY FOR SPECIAL REQUIREMENTS

HOW TO ORDER:

Specify Model Number

CFH – WG LF HF-- XX

← To be specified by the factory

Waveguide Size →

Low End Frequency →

High End Frequency →

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.

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE