

Prime Focus Parabolic Antennas

FEATURES:

- ❖ Low Cost
- ❖ High Directivity and Gain
- ❖ Simple Mechanical Design
- ❖ Moderate Sidelobe Performance
- ❖ Wide Range of Available Beamwidths and Reflector Sizes
- ❖ Available From 6 to 140 GHz

APPLICATIONS:

- ❖ Radar and Telemetry Systems
- ❖ Point to Point Communication Links



CPF Series

DESCRIPTION:

Cernexwave's CPF series antenna consist of a parabolic reflector, a linearly-polarized primary feed, and a feed support assembly, that is attached to the rim of the reflector in order to position the feed accurately. Tapped holes are provided on each antenna for mounting. The antennas feature a precision aluminum reflector that provides excellent performance at millimeter wave frequencies between 6 to 140 GHz. Diameters for this antenna are available from 3 to 24 inches. This design is recommended for frequencies where low surface tolerances (typically 0.001 inch RMS) are critical for electrical performance. The characteristic of the CPF series antennas makes them well suited for applications where high performance is necessary. For applications that require larger diameters, the CPFF series antennas feature metallized fiberglass reflectors and cover a frequency range from 6 to 140 GHz. They are available in diameters from 18 to 120 inches with low surface tolerances (typically 0.0023 inch RMS).

SPECIFICATIONS:

Effective Diameter (Inches)			3	6	12	18	24	36	48
CPF	A	in	3.4	7.3	15.0	22.0	28.2	--	--
		mm	86	185	381	558	716	--	--
	B	in	3.7	5.1	10.5	11.0	15.7	--	--
		mm	94	129	266	279	399	--	--
CPF	C	in	--	--	--	11.8	15.0	20.3	23.5
		mm	--	--	--	300	381	515	597
	D	in	--	--	--	22.0	27.4	39.2	54.0
		mm	--	--	--	558	696	996	1372

HOW TO ORDER:

Specify Model Number

CPF – LF HF GN ED - XX

LF: Low End Frequency
HF: High End Frequency
GN: Gain

ED: Effective Diameter
XX: To be specified by the factory

Example: To order WR-15 parabolic antenna with a frequency band of 60-65GHz, 35dBi gain and an effective diameter of 12 inches, specify **CPF60651235-XX**.