



## Frequency Meters

### FEATURES:

- ❖ High Frequency Operation from 90.0 to 220 GHz
- ❖ Circular Waveguide Cavity for High-Q Resonances
- ❖ Micrometer Readout for Accurate Frequency Determination



### APPLICATIONS:

- ❖ Test equipment

### DESCRIPTION:

### CMF Series

**Cernex's CMF** series frequency meters are available in three standard waveguide sizes for operation over 90 to 220 GHz frequency range. Each unit is supplied with a calibration table and curve. The calibration is performed by using the micrometer-driven plunger to measure the distance between electrical resonances for a known frequency. These distances are recorded for several frequencies and then plotted on a curve to allow extrapolation for all frequencies.

### SPECIFICATIONS:

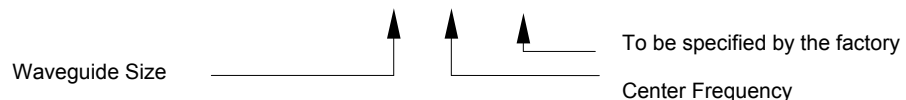
Waveguide Band	F	D	G
Waveguide Size	WR-8	WR-7	WR-5
Frequency Range (GHz)	90 to 140	110 to 170	140 to 220
Absolute Accuracy (%)	0.5	0.5	0.7
VSWR Max. <sup>1</sup>	1.20	1.20	1.20
Insertion Loss (dB) Typical	0.5	0.6	0.8
Dip at Resonance (dB)	0.3 – 1.0	0.3 – 1.0	0.3 – 1.0
Weight (oz)	3.0	2.5	2.5

Notes: 1. Off Resonance

### HOW TO ORDER:

Specify Model Number

CMF – WG FF -- XX



**Example:** To order WR-8 frequency meters with center frequency of 115 GHz , specify CMF-08115-XX.

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE