

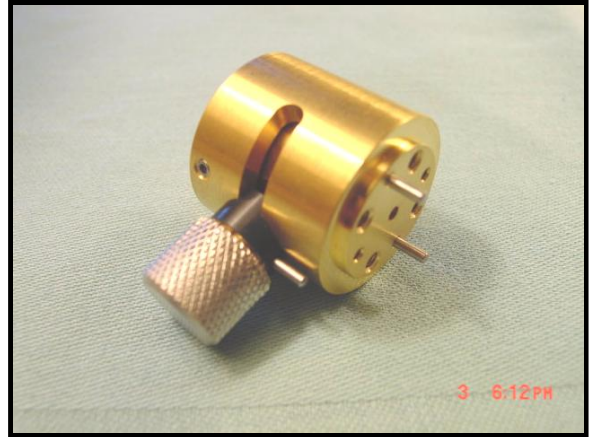
## Circular Polarizers

### FEATURES:

- ❖ VSWR < 1.2
- ❖ Higher Frequency Units will be Quoted on Request
- ❖ Axial Ratio < 1.0 dB Over the indicated Bandwidth
- ❖ Converts Linear Input Signals to Circular Out
- ❖ Specify Sense of Circular Polarization (RHCP or LHCP)
- ❖ Available from 18.0 to 110 GHz with 3% or Greater Bandwidth

### Applications:

- ❖ Satellite Links
- ❖ Radio Astronomy
- ❖ Communication Systems



### DESCRIPTION:

**Cernexwave's CCP** series circular polarizer converts input linear signals to circularly polarized output signals. The circular polarization sense (RHCP or LHCP) and center frequency should be specified at the time of order. This polarizer will yield a maximum VSWR of 1.2 and an axial ratio of 1.0 dB maximum over the indicated bandwidth.

### SPECIFICATIONS:

Waveguide Band	K	Ka	Q	U	V	E	W
Waveguide Size	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10
Frequency Range (GHz)	18 to 26.5	26.5 to 40	33 to 50	40 to 60	50 to 75	60 to 90	75 to 110
in	2.3	1.5	1.5	1.5	1.1	1.1	1.0
mm	58.4	38.1	38.1	38.1	28.0	28.0	25.4

### HOW TO ORDER:

Specify Model Number                      CCP – WG LF HF-- XX

WG:     Waveguide Size  
LF:     Low End Frequency

HF:     High End Frequency  
XX:     To be specified by the factory

**Example:** To order a circular polarizer with waveguide size of WR-15 and a frequency of 50-75 GHz, specify CCP-155075-XX.

CERNEXWAVE RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE.