

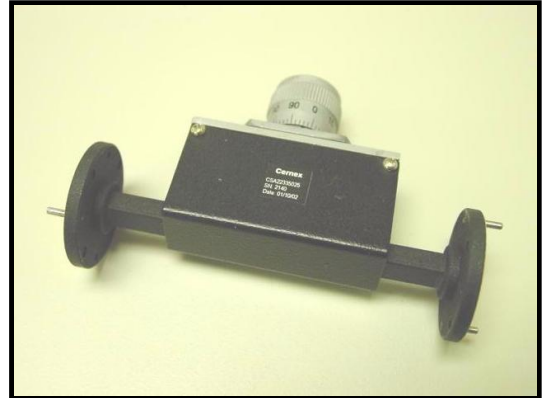
## Ferrite Phase Shifters

### FEATURES:

- ❖ Fast Rise Time
- ❖ 360° Phase Shift
- ❖ Remote Controlled

### APPLICATIONS:

- ❖ Remote Control Operation
- ❖ High Speed Phase Modulation



### DESCRIPTION:

### CFS Series

Cernexwave's CFS series is a suppressed rotation reciprocal ferrite phase shifter, built completely in rectangular waveguide to suppress Faraday rotational tendencies in the ferrite at the frequency of operation. This construction allows a low variation in loss as phase is changed. Rise time is optimized through the use of stainless steel waveguide.

### SPECIFICATIONS:

Waveguide Band	Ka	Q	U	V	E	W
Waveguide Size	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10
Frequency Range (GHz)	26.5 to 40	33 to 50	40 to 60	50 to 75	60 to 90	75 to 110
Insertion Loss (db) Max.	2.5	2.7	2.7	3.0	3.0	3.0
VSWR Max.	1.30	1.30	1.30	1.30	1.35	1.35
Phase Shift <sup>1</sup>	270 Degree Minimum					
Bandwidth <sup>2</sup>	2%	2%	2%	2%	2%	1%
Switching Speed (μsec)	20	20	20	15	15	15
Average Power (Watts)	5.0	4.0	2.0	1.0	1.0	0.5
Power, Peak (kW)	2.0	1.5	1.0	0.7	0.5	0.3
Weight (oz)	9.0	8.0	6.0	4.0	3.0	3.0

Notes: 1. Consult factory for amount of phase shift. 2. Specify center frequency.

### HOW TO ORDER:

Specify Model Number

CFS – WG FF -- XX

Waveguide Size Flange

To be specified by the factory

Center Frequency

**Example:** To order WR-15 waveguide ferrite phase shifters with center frequency of 62 GHz, specify CFS-1562-XX

CERNEXWAVE RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE