



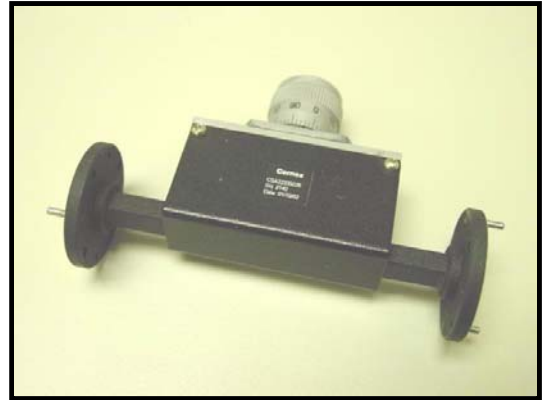
Ferrite Phase Shifters

FEATURES:

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

APPLICATIONS:

- ❖ Remote Control Operation
- ❖ High Speed Phase Modulation



DESCRIPTION:

CFS Series

Cernex'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 ¹						
Bandwidth ²	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

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE