

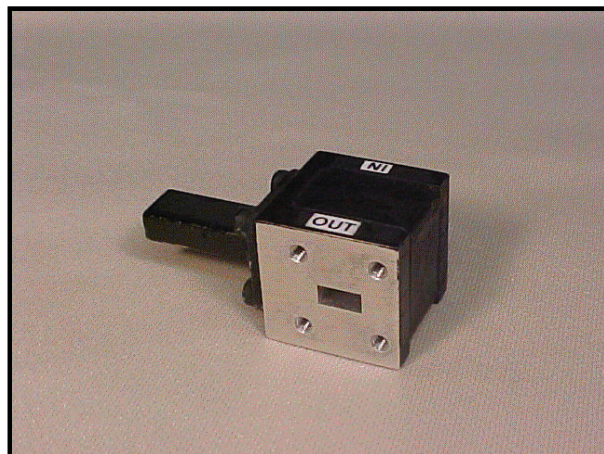
Full Band Junction Circulators and Isolators

FEATURES:

- ❖ Full waveguide band operation
- ❖ Low insertion loss
- ❖ High Isolation
- ❖ Compact

APPLICATIONS:

- ❖ Test setup
- ❖ Instrumentation
- ❖ Subsystems
- ❖ Transceivers



CFI & CFC Series

DESCRIPTION:

Cernex CFI series full band waveguide junction isolators and **CFC** series full band waveguide junction circulators are available in K and Ka waveguide bands. These isolators and circulators feature low insertion loss and high isolation for full waveguide bands operation. With H-plane junction configuration, the full band junction isolators offer lower insertion loss when compared to the isolators using the Faraday-rotation construction, while the full band circulators offer unique full band operation features for three port isolation. These devices are ideally suited for broad band communication systems or test instrument application.

SPECIFICATIONS:

Frequency Band	X	Xs	Ku		K	Kb	Ka
Model numbers	CFI08120315 / CFC08120315	CFI10150320 / CFC10150320	CFI12180320 / CFC12180320	CFI15220518 / CFC15220518	CFI18260319 / CFC18260319	CFI22270320 / CFC22270320	CFI26400419 / CFC26400419
Frequency Range (GHz)	8.2 to 12.4	10.0 to 15.0	12.4 to 18.0	15.0 to 22.0	18.0 to 26.5	22.0 to 27.0	26.5 to 40.0
Waveguide Size	WR-90	WR-75	WR-62	WR-51	WR-42	WR-34	WR-28
Insertion Loss (dB typ)	0.3	0.3	0.3	0.5	0.6	0.3	0.7
Isolation (dB typ)	15	20	20	18	17	20	15
VSWR (typ)	1.25:1	1.25:1	1.20:1	1.30:1	1.3:1	1.22:1	1.30:1

OUTLINES:

