

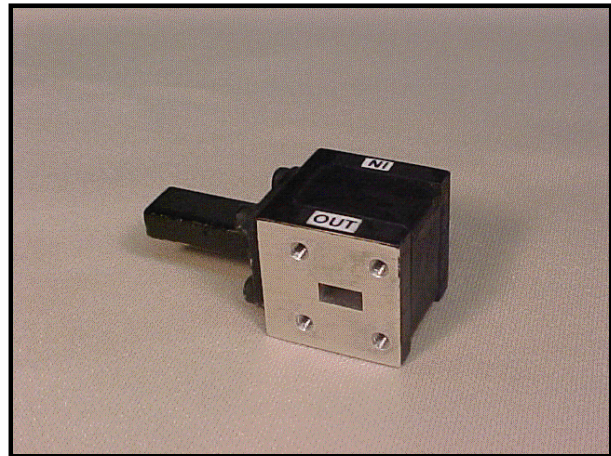
## Full Band Junction Circulators and Isolators

### 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:

#### CIRCULATORS:

Model Number	Waveguide Size	Frequency Range (GHz)	Insertion Loss (dB)	Isolation (dB)	Size (Inch)
CFC40600618S	WR-19	40-60	0.6	18	0.75x0.75x0.75
CFC33500618S	WR-22	33-50	0.6	18	1.0x1.0x0.75
CFC26400618S	WR-28	26.5-40	0.6	18	1.0x1.0x0.75
CFC22330518S	WR-34	22-33	0.5	18	1.25x1.25x0.88
CFC18260518S	WR-42	18-26.5	0.5	18	1.50x1.50x0.88
CFC15220418S	WR-51	15-22	0.4	18	1.75x1.75x1.31
CFC12180418S	WR-62	12.4-18	0.4	18	2.00x2.25x1.31
CFC10150418S	WR-75	10-15	0.4	18	2.25x2.50x1.50
CFC08120418S	WR-90	8.2-12.4	0.4	18	2.75x3.00x1.63
CFC07100318S	WR-112	7.05-10	0.3	18	3.00x3.5x1.88
CFC05080318S	WR-137	5.85-8.2	0.3	18	4.00x4.25x1.94
CFC04070220S	WR-159	4.9-7.05	0.25	20	4.50x5.00x2.44
CFC03050220S	WR-187	3.95-5.85	0.25	20	5.50x6.00x2.50
CFC03040220S	WR-229	3.3-4.9	0.25	20	6.50x7.00x2.75



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Model Number	Waveguide Size	Frequency Range (GHz)	Insertion Loss (dB)	Isolation (dB)	Size (Inch)
CFC02030220S	WR-284	2.6-3.95	0.2	20	8.00x9.00x3.00
CFC02030220S	WR-340	2.2-3.3	0.2	20	9.50x10.50x3.75
CFC01020120S	WR-430	1.7-2.6	0.15	20	14.00x14.00x4.19
CFC01010120S	WR-650	1.12-1.7	0.15	20	18.00x21.00x5.44

OTHER FREQUENCIES ARE ALSO AVAILABLE.

CONSULT THE FACTORY FOR ISOLATORS (CFI SERIES) WITH DIFFERENT POWER LEVEL