

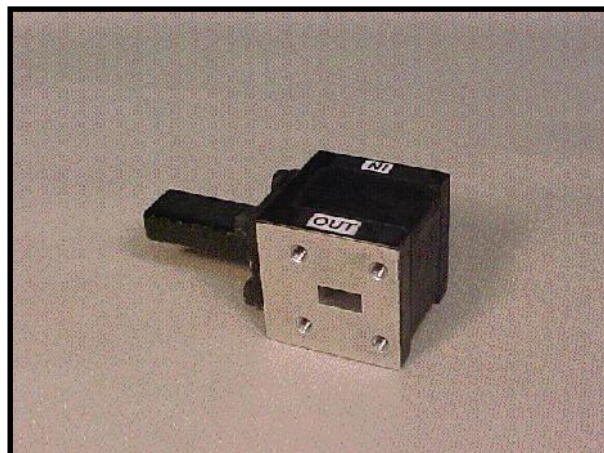
## Full Band Junction Circulators and Isolators

### FEATURES

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

### APPLICATIONS

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



**CFI/CFC Series**

### DESCRIPTION

Cernexwave's **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.

### CIRCULATORS

Model Number	Waveguide Size	Frequency (GHz)	Insertion Loss (dB)	Isolation (dB)	Size (Inches)
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
CFC02030220S	WR-284	2.6-3.95	0.2	20	8.00x9.00x3.00



Model Number	Waveguide Size	Frequency (GHz)	Insertion Loss (dB)	Isolation (dB)	Size (Inches)
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
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

## ISOLATORS

Model Number	Waveguide Size	Frequency (GHz)	Insertion Loss (dB)	Isolation (dB)	Size (Inches)
CFI901402225	WR-08	90-140	2.2	25	0.75 x 1.0
CFI751101725	WR-10	75-110	1.7	25	0.75 x 1.2
CFI60901525	WR-12	60-90	1.5	25	0.75 x 1.15
CFI50751525	WR-15	50-75	1.5	25	0.75 x 1.4
CFI26400715	WR-28	26.5-40	0.7	15	--
CFI18260417	WR-42	18-26.5	0.4	20	0.88 x 0.875 x 1.5
CFI12180320	WR-62	12.4-18	0.3	20	--
CFI10150320	WR-75	10-15	0.3	20	--
CFI08120315	WR-90	8.2-12.4	0.3	15	---

OTHER FREQUENCIES AND POWER LEVELS ARE AVAILABLE- CONTACT US WITH YOUR REQUIREMENTS AT SALES@CERNEXWAVE.COM.