

## Full Waveguide Band Isolators (Faraday)

### FEATURES

- ❖ Low Insertion Loss
- ❖ Full Waveguide Band
- ❖ Lightweight and Compact Design
- ❖ Excellent Isolation Across the Band
- ❖ Faraday Rotation Principle of Operation

### APPLICATIONS

- ❖ Test Setup
- ❖ Instrumentation
- ❖ Subsystems
- ❖ Transceivers



**CFF Series**

### DESCRIPTION

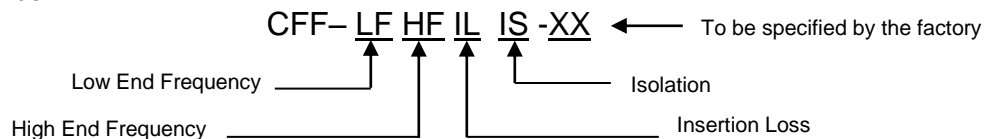
Cernexwave's **CFF Series Full Waveguide Band Isolators** use the Faraday principle of rotation in a broadband dielectric waveguide design to achieve high isolation across full waveguide bands. These isolators are available in standard waveguide sizes from 18.0 to 220 GHz. Only high-quality ferrite material are in these isolator and the magnetic field is produced by an integral Alnico V permanent magnet. Precise machining operations and refined assembly techniques are combined to ensure maximum reproducibility and performance,

Model	Waveguide Type	Frequency (GHz)	Isolation (dB)	Insertion Loss (dB)	VSWR Max	Power (W)	Flange*
CFF18261025-XX	WR-42	18 - 26.5	25	1	1.3	2	UG-595/U
CFF26401025-XX	WR-28	26.5 - 40	25	1	1.30	2	UG-599/U
CFF33501325-XX	WR-22	33 - 50	25	1.3	1.3	1.5	UG-383/U
CFF40601525-XX	WR-19	40 - 60	25	1.5	1.3	1.5	UG-383/U
CFF50751525-XX	WR-15	50 - 75	25	1.5	1.4	1	UG-385/U
CFF60901525-XX	WR-12	60 - 90	25	1.5	1.4	1	UG-387/U
CFF751101725-XX	WR-10	75 - 110	25	1.7	1.4	1	UG387/UM
CFF901402225-XX	WR-8	90 - 140	25	2.2	1.4	0.4	UG-387
CFF1101703522-XX	WR-6	110 - 170	22	3.5	1.5	0.2	UG-387
CFF1402204522-XX	WR-5	140 - 220*	22	4.5	1.5	0.2	UG-387

\*Optional flanges are available (e.g. UG-381/U (67B-005)).

### HOW TO ORDER

Specify Model Number



**Example:** To order WR-15 waveguide Faraday Isolator with a frequency of 50-75Ghz, an I.L. of 1.8db, an Isolation of 25db,specify CFF-50751825-XX.