Full Band Junction Circulators and Isolators

Bulletin No. FIF & FCF

FEATURES

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

APPLICATIONS

- Test setup
- Instrumentation
- Subsystems
- Transceivers



FIF & FCF Series

DESCRIPTION

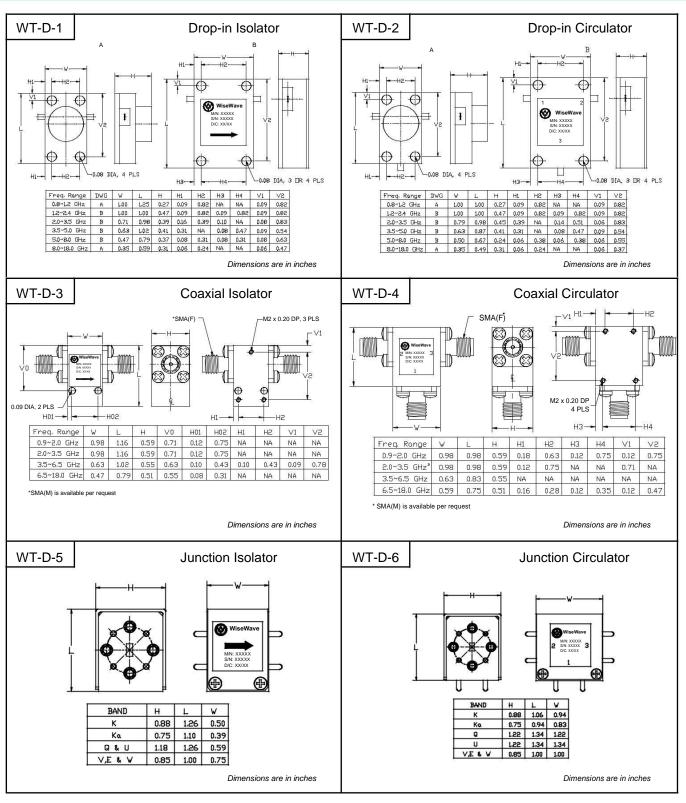
FIF series full band waveguide junction isolators and **FCF** series full band waveguide junction circulators are available from 8.2 to 40 GHz frequency range in five waveguide bands. The isolators and circulators feature low insertion loss and high isolation for full waveguide bands operation. With H-plane junction configuration, the full band junction isolators offer a lower insertion loss compared to the Faraday-rotation types, while circulators offer unique full band operation features. These devices are ideally suited for broad band communication systems, EW systems and test instrument applications.

SPECIFICATIONS

Frequency Band	Х	WR-75	Ku	K	Ka
Model Number (Isolator)	FIF-90-01	FIF-75-01	FIF-62-01	FIF-42-01	FIF-28-01
Model Number (Circulator)	FCF-90-01	FCF-75-01	FCF-62-01	FCF-42-01	FCF-28-01
Frequency Range (GHz)	8.2 to 12.4	10.0 to 15.0	12.4 to 18.0	18 to 26.5	26.5 to 40.0
Waveguide Size	WR-90	WR-75	WR-62	WR-42	WR-28
Insertion Loss (dB max)	0.5	0.5	0.5	0.5	0.5
Isolation (dB min)	18	18	18	16	16
VSWR (max)	1.35:1	1.35:1	1.35:1	1.40:1	1.40:1
Flange Type	UG-39/U	WR-75	UG419/U	UG595/U	UG599/U
Forwarding (W, min)	50	50	50	10	10
Load Power (W, min)*	1	1	0.5	0.5	0.5
Outline Drawings	Consult Factory				
Temperature Range	0 to +50°C				

*Note: Isolator only

e Device Outline Drawings



The flange pattern shown is for illustration purpose. Refer to Technical Reference Section for flange pattern details. The outline drawings shown are standard versions. Contact factory for your specific package requirements.