Bulletin No. FII & FCI

FEATURES

- Low cost, high quality
- Compact size, light weight
- High performance
- Wide operation temperature range
- Common Radar and wireless bands

APPLICATIONS

- Ports isolation
- Module integration
- Transceiver subsystems



FII & FCI Series

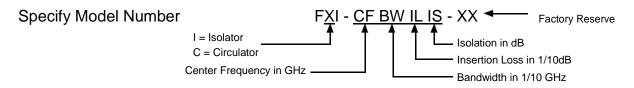
DESCRIPTION

FII and FCI series narrow band iso-adapters provide isolation and circulation functions between waveguide and coaxial interface. These iso-adapters cover common Radar and wireless communication frequency bands up to 65 GHz. The iso-adapters are ideal device where the port isolation and duplexing are required. The iso-adapters can be configured with standard waveguide interface with N-type, SMA, K, 2.4 mm and V coax interface. The low cost **FII** and **FCI** series iso-adapters offer very compact sizes that can be easily inserted into the sub-assembly with minimum size increase. While the standard specifications are shown below, the custom ones with up to full waveguide bandwidth and higher isolation are available.

SPECIFICATIONS

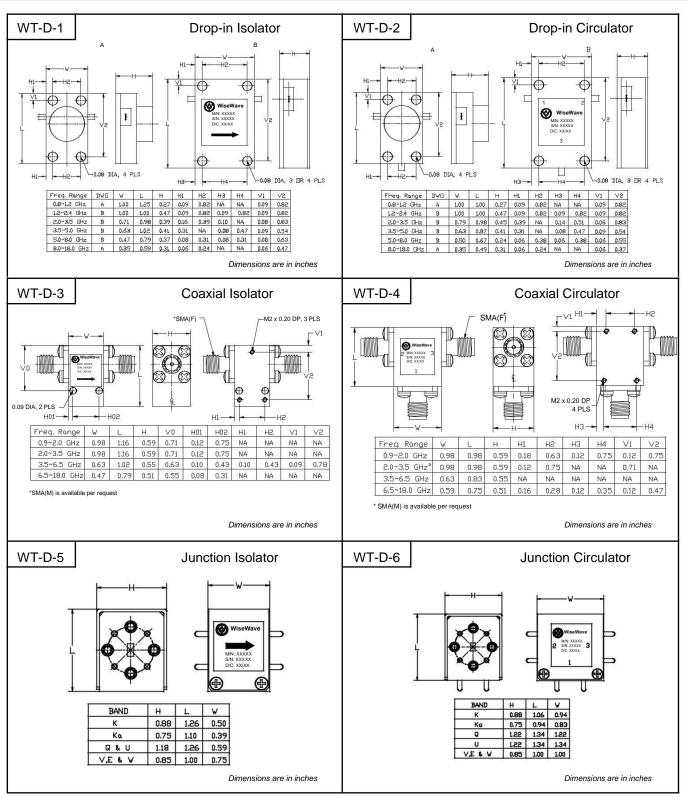
Frequency Band	Х	WR-75	KU	K	KA	Q	U	٧
Frequency Range (GHz)	8.2 to 12.4	10 to 15	12.4 to 18	18 to 26.5	26.5 to 40	33 to 50	40 to 60	50 to 70
Bandwidth (GHz)	1.0	1.5	1.5	2.0	2.0	2.0	2.0	2.0
Insertion Loss (dB max)	0.4	0.4	0.5	0.5	0.6	0.7	0.8	1.0
Isolation (dB min)	20	20	20	19	18	18	18	18
VSWR (max)	1.25:1	1.25:1	1.25:1	1.25:1	1.25:1	1.3:1	1.3:1	1.4:1
Waveguide Size	WR-90	WR-75	WR-62	WR-42	WR-28	WR-22	WR-19	WR-15
Coax Connector	N, SMA	SMA	SMA	К	K	2.4	V	V
Temperature Range	0 to +50°C							

HOW TO ORDER



Example: To order a center frequency 18 GHz circulator/iso-adpater with 1.0 GHz bandwidth, 0.5 dB maximum insertion loss and 20 dB minimum isolation, specify FCI-18100520-XX.

Ferrite 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.