Connectorized Ferrite Isolators and Circulators

Bulletin No. FIC & FCC

FEATURES

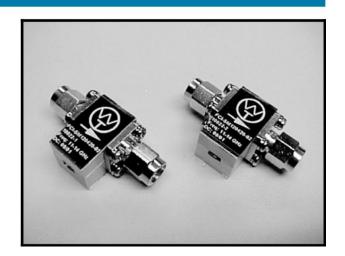
- Low cost, high quality
- Compact size, light

weight * High performance

Wide operation temperature

APPLICATIONS

- Ports isolation
- Module integration
- Transceiver subsystems



FIC & FCC Series

DESCRIPTION

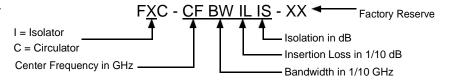
FIC and FCC series narrow band connectorized isolators and circulators cover common Radar and wireless communication frequency bands up to 20 GHz. The isolator is an ideal device where the port isolation is required, while the circulator is commonly used as a duplexer for transceiver subsystems where the transmitter and receiver ports share a single antenna port. The connectorized isolators and circulators equipped with either SMA(F) or SMA(M) connectors for ease connections. The low cost **FIC** and **FCC** series isolators and circulators 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 wider bandwidth and higher isolation are available.

SPECIFICATIONS

| Frequency Range (GHz) | 0.8 to 1.2 | | 1.2 to 2.4 | | 2.0 to 3.5 | | 3.5 to 5.0 | | 5.0 to 8.0 | | 8.0 to 18.0 | |
|-------------------------|----------------------|------|------------|------|------------|------|------------|------|------------|------|-------------|------|
| Bandwidth (MHz min) | 25 | 70 | 70 | 200 | 200 | 400 | 300 | 500 | 100 | 600 | 300 | 1000 |
| Isolation (dB min) | 23 | 20 | 23 | 20 | 23 | 20 | 23 | 20 | 20 | 20 | 23 | 20 |
| Insertion Loss (dB max) | 0.3 | 0.4 | 0.3 | 0.4 | 0.3 | 0.5 | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 |
| VSWR (max) | 1.20 | 1.25 | 1.20 | 1.25 | 1.20 | 1.25 | 1.20 | 1.25 | 1.25 | 1.25 | 1.20 | 1.25 |
| Power Handling (W, min) | 60 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| Outline Drawings | WT-D-3 and/or WT-D-4 | | | | | | | | | | | |
| Temperature Range | 0 to +50°C | | | | | | | | | | | |

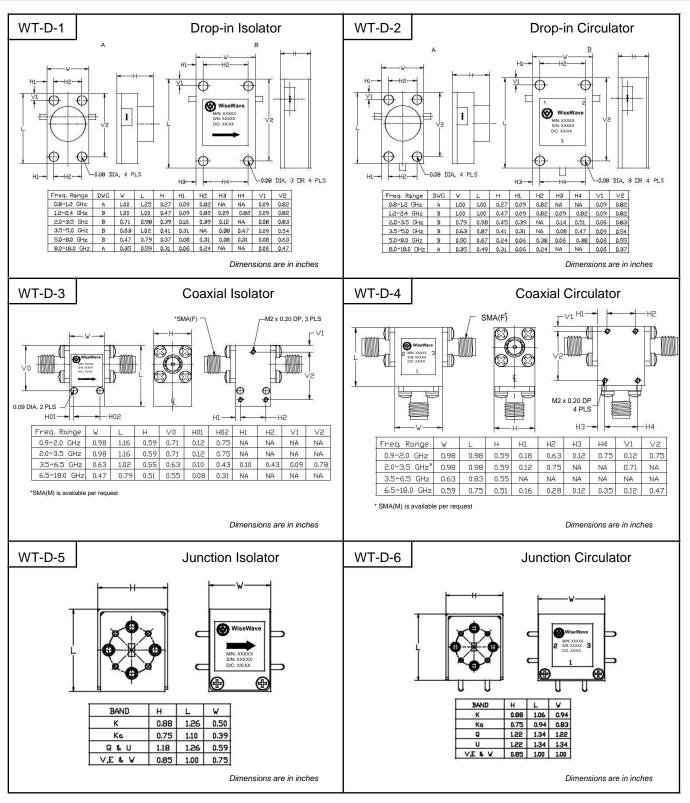
HOW TO ORDER

Specify Model Number



Example: To order a center frequency 18 GHz circulator with 1.0 GHz bandwidth, 0.4 dB maximum insertion loss and 20 dB, minimum isolation, specify FCC-18100420-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.