

Filter and Ferrite Product Capability

Millitech manufactures a complete line of ferrite components (circulators and isolators) for use in the 18 to 140 GHz range. Products range from compact, low-loss junction isolators and circulators to full waveguide band isolators based on Faraday rotation effect. In addition, Millitech produces waveguide filters for virtually every application and all possible filtering requirements. Please click on the Product Descriptions and Datasheets button in the Products tab for more information.

Function ferrite components are nonreciprocal devices, which employ a three-port junction turnstile with a ferrite post to achieve circulator function. A junction isolator is realized by terminating of the three ports. Low insertion loss, high return loss and relatively wide bandwidth of operation (a few gigahertz) characterize these components. Isolators and circulators form an important part of most subsystems, signal sources and measurement equipment.

Millitech series JFD junction isolators are mechanically configured to allow space-efficient integration with other components without requiring unnecessary lengths of waveguides. Fullband Faraday rotation isolators are particularly useful in test equipment and broadband instrumentation or subsystems.

Millitech series FNP and FWP narrow and wide bandpass filters, series FHP and FLP high and low pass filters are designed to achieve the performance characteristics to match the selectivity and rejection requirements.

The operating characteristics of these filters can be tailored to precisely fit the frequency-attenuation plan.

In addition to the standard products, Millitech also manufactures custom filters for subsystems and unique applications.