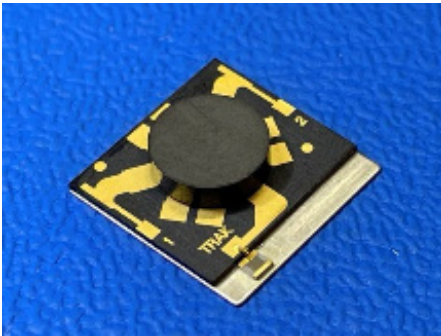
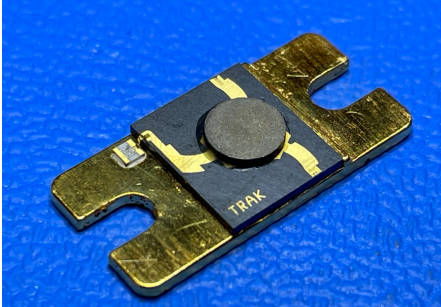


Microstrip Circulators & Isolators



Microstrip circulators and isolators are passive, non-reciprocal RF/ microwave components that control signal flow direction between ports.

The devices utilize a metalized ferrite substrate on a ferrous carrier. Interconnections are typically gold wire bonds or ribbon bonds. They are compact, lightweight, and ideal for integration into RF systems, essential in radar, communications, and electronic warfare.

Key Features

- Non-reciprocal 3-port operation
- Compatible with MMIC and hybrid integration
- Low mass and low profile
- Compact rugged construction, able to withstand solder re-flow temperatures
- Compatible with automated assembly
- Assembled and tested in the U.S. DEFAR compliant materials

Technical Specifications

- Frequency range: designs available from 5 GHz to 30 GHz
- Bandwidth: typically 10% to 30%
- Insertion loss: 0.4dB typical
- Isolation: 20dB typical
- VSWR: 1.25:1 typical
- Operating temperature: -20C to +80C

Design Capabilities

- Custom frequency band design optimization
- Input/ output port locations per customer needs
- Available as isolator and circulator
- EM simulation and optimization, HFSS with magnetic simulator
- Extensive design portfolio



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