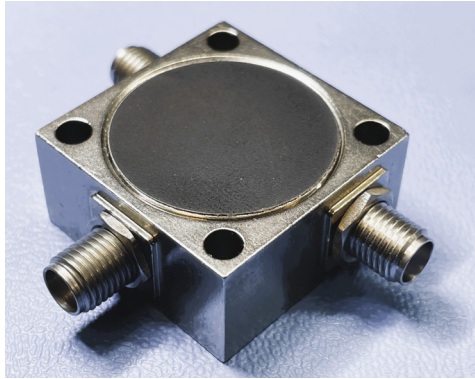


Coaxial Circulators & Isolators



Coaxial circulators and isolators are passive, non-reciprocal radio frequency (RF) devices that control the direction of signal flow in coaxial transmission systems.

Designed for low insertion loss and high isolation, they are essential in radar, satellite communications and electronic warfare.

Design Capabilities

- Engineered solutions; high reverse power isolator, high peak power devices
- EM simulation and optimization, HFSS with magnetic simulator
- Extensive design portfolio, allowing for a quick review of packaging and performance

Key Features

- Excellent magnetic shielding, can operate within 1/2" of another device
- SMA M/F connector available, any port
- Compact rugged construction, designed for the harshest environmental conditions
- Designed for military radar and communications applications
- Designed, assembled, and tested in the U.S., with DFAR compliant materials

Technical Specifications

- Frequency range: designs available from 400 MHz to 30 GHz
- Bandwidth: Typically 10% to 30%
- Insertion loss: 0.2dB - .6dB, band width dependent
- VSWR: 1.25:1 typical
- Operating temperature: -40C to +85C, most frequencies



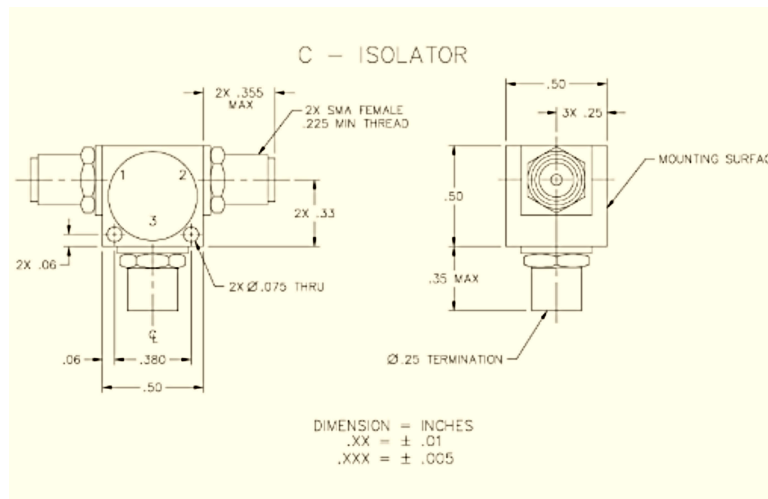
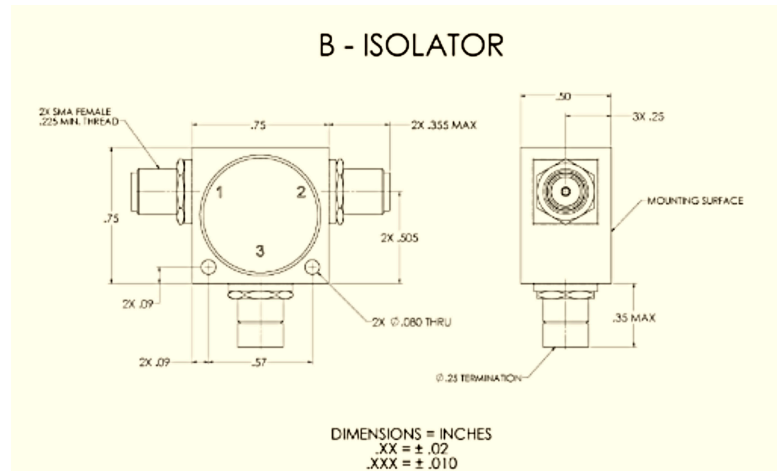
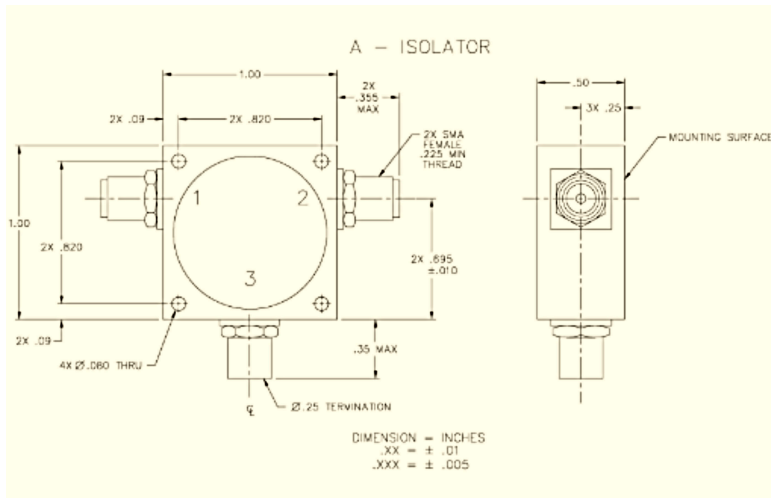
Coaxial Circulators & Isolators

Frequency Range (GHz)	Model Number	Isolation (min.)	Insertion Loss (max.)	VSWR (max.)	Operating Temp (C)	Power PK/AV/Rev (watts)	Figure
1.0 – 1.1	T1011CI	20	0.5	1.20:1	-25 - +85	500/80/1	A
2.0 – 4.0	T2040CI	16	0.5	1.45:1	-10 - +70	100/60/1	A
3.0 – 6.0	T3060CI	16	0.5	1.4:1	-40 - +85	100/40/1	B
4.0 – 8.0	T4080CI	18	0.5	1.30:1	-40 - +85	500/60/1	B
5.0 – 10.0	T50100CI	19	0.5	1.35:1	-40 - +85	500/40/1	B
6.0 – 12.0	T60120CI	14	0.8	1.45:1	-40 - +85	100/20/1	B
8.0 12.4	T80124CI	20	0.5	1.25:1	-40 - +85	500/65	C
10.0 – 15.0	T100150CI	20	0.5	1.20:1	-40 - +85	500/60/1	C
12.0 – 18.0	T120180CI	19	0.5	1.25:1	-40 - +85	500/65/1	C
8.0 – 16.0	T80160CI	17	0.5	1.35:1	-40 - +85C	500/3/3	C



Coaxial Circulators & Isolators

Package Designs



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