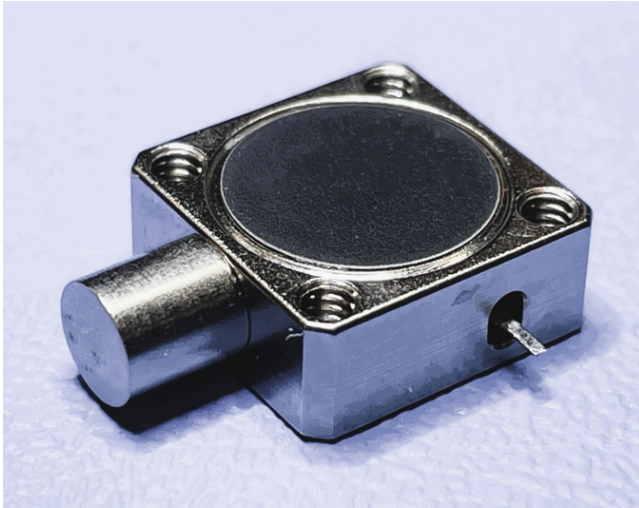


Drop-In Circulators & Isolators



Drop-In 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

Key Features

- Excellent magnetic shielding, can operate within 1/2" of another device
- Compact rugged construction, designed for the harshest environmental conditions
- Lower insertion loss than coaxial devices
- Designed, assembled, and tested in the U.S. with DFAR compliant materials

Technical Specifications

- Frequency Range: Designs available from 400 MHz 30 GHz
- Band Width: Typically 10% to 30%
- Insertion Loss: .2dB - .6dB, band width dependent
- VSWR: 1.25:1 typical
- Operating Temperature: -40C to +85C



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Drop-In Circulators & Isolators

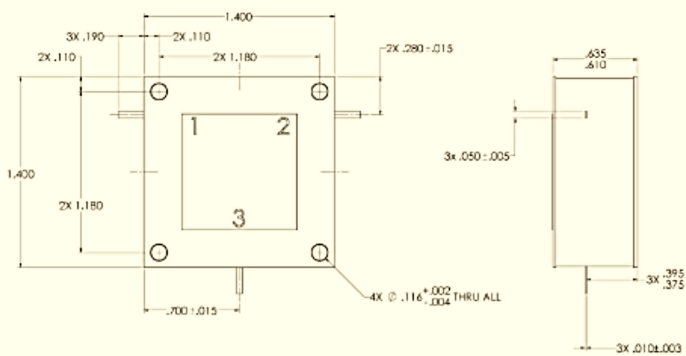
Frequency Range (GHz)	Model Number	Isolation (dB min.)	Insertion Loss (dB max.)	VSWR (max.)	Operating Temp (°C)	Power PK/AV/Rev (watts)	Package
0.405 – 0.460	T040046DC	18	0.4	1.30:1	-20 – +70	1.5K/90	D
0.960 – 1.225	T096122DC	18	0.5	1.30:1	-10 – +70	1K/50	E
2.0 – 4.0	T2040DI	16	0.6	1.40:1	-10 – +70	100/100	F
2.6 – 5.2	T2552DI	15	0.7	1.50:1	-25 – +85	20/20/1	F
3.0 – 6.0	T3060DI	16	0.6	1.40:1	-25 – +85	20/20/1	F
4.0 – 8.0	T4080DI	16	0.6	1.40:1	-25 – +85	20/20/1	G
5.0 – 10.0	T50100DI	16	0.6	1.40:1	-25 – +70	20/20/1	G



Drop-In Circulators & Isolators

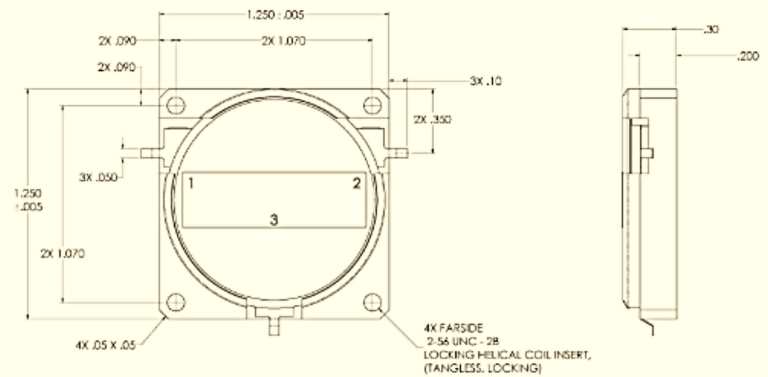
Package Designs

D - CIRCULATOR



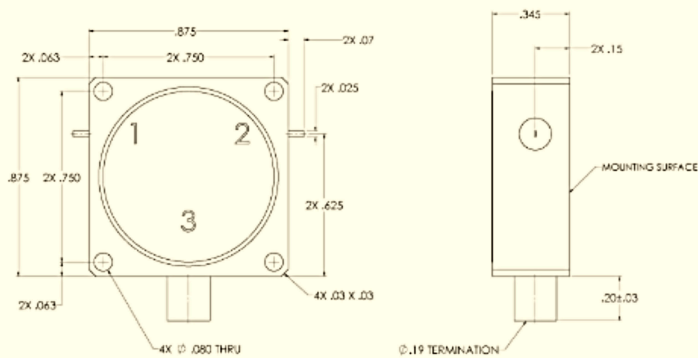
DIMENSIONS = INCHES
 .XX = ±.02
 .XXX = ±.010
 WEIGHT = 4.95 OZ MAX

E - CIRCULATOR



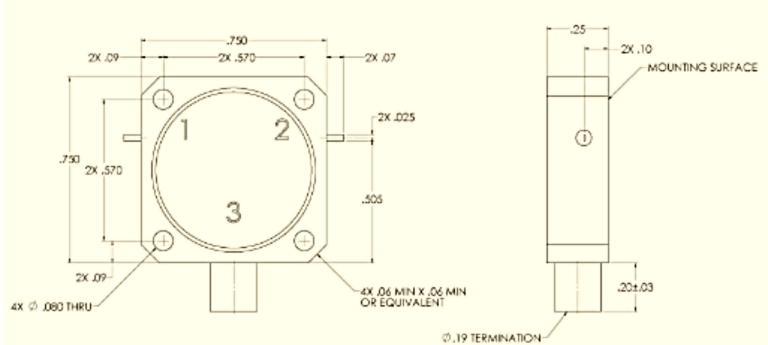
DIMENSION = INCHES
.XX = ± .02
.XXX = ± .010

F - ISOLATOR



DIMENSION = INCHES
.XX = $\pm .02$
.XXX = $\pm .010$

G - ISOLATOR



DIMENSIONS = INCHES
 .XX = $\pm .02$
 .XXX = $\pm .010$

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