



## **COAXIAL ISOLATORS and CIRCULATORS 26MHz - 50GHz**

Ferrite isolators and circulators to satisfy specific system requirements for reliability, cost, and size

Optimally tuned to the highest specifications, they contain all the necessary matching and tuning elements in a shielded housing.

**High Power** 

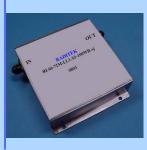


2.2 Kilo Watts Coaxial Circulator, 321.5-322.5MHz, 7/16 and 1 5/8 - Female Connectors, , Counter-Clockwise Rotation, Water Cooled For operating frequencies up to 1.0GHz coaxial isolators and circulators are available that can handle power up to 3500 watts with bandwidth up to 30% of the center frequency.

2.2 Kilo Watts Coaxial Circulator 80-81MHz, 7/16- e Connectors, 2 Kilo Watts, Counter-Clockwise Rotation, Water Cooled



High Power



LL1 Isolator model for Digital T.V. Transmitters has 5 options covering TV channels 2-6, covering 49 to 88 MHz with a 6 MHz Bandwidth. These units can handle 100 Watts forward and reverse load power. Electrical Specifications: Insertion loss <0.8 dB, Isolation >18 dB, VSWR 1.25:1.

Full VHF/FM Radio Band Broadcast, Transmitter Coaxial Circulator operating from 88-108MHz at 500Watts Reverse and Forward Power handling with 7/16 Female Connectors. Forced Air cooling, Max temperature of the device body +60C Dimensions: 175(W) x 175(L) 45(T)

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Our portfolio ranges from customized niche products to standard devices for

- ► Satcom all bands: L, S, C, X, Ku, Ka
- ▶ Point to Point Radios: 2G, 4G, 6G, 7G, 8G, 18G, 24G, 26G, 38G
- ► TV Transmitters band I, III, IV and V VHF and UHF
- ► FM broadcasting Transmitters: 88-108MHz
- ▶ Mobile and Cellular PCS, WLAN, WiFi and WiMax radio base stations
- MRI Imaging
- industrial heating

K / 2.9 connector Coaxial Isolator and Circulator Family spans 17 to 45GHz with up to 3GHz bandwidth, 1, 2 or 5 Watts



Wide Band models feature the exceptional 18-40GHz Full Band



Tri-Band Coaxial Isolator or Circulator 5.8-14.5GHz C, X and Ku Bands in one unit. 5.8-6.45, 7.9-8.4, 140-14.5GHz 2.4 connector Coaxial Isolators and Circulators Family 40-45 GHz, 1-2GHz Bandwidth, 1, 2 Watts



**Isolators and Circulators Coaxial Overview** 

Specifications may be subject to change

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## **COAXIAL ISOLATORS and CIRCULATORS 26MHz - 50GHz**

Mode

**Peripheral** 



Octave and Octave plus

Cost effective solution for wide band frequency applications.

Popular Octave frequencies, 500-1000MHz, 800-2000MHz, 1500-3000MHz, 1.0-2.0GHz, 2.0-4.0GHz, 3.0-6.0GHz, 4.0-8.0GHz, 6-12GHz and 8.0-18GHz.

Popular Octave Plus frequencies, 1.0-2.5, 2.0-6.0GHz, 4.0-12.0GHz, 6-18GHz and 8.0-18GHz

Ultra Wideband Peripheral Mode multi octave Isolator

Standard Frequency Bands are 1-3, 1-4.3, 2-6, 2-8.2, 3.2-8.3 and 8-18 GHz



Featuring the revolutionary / unique 2.0-18.0GHz Full Band Isolator

Cryogenic

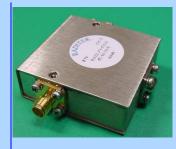


Cryogenic Isolators and Circulators for Radio Astronomy, Radiometers and Electrical spin resonance measurement systems.

Two Models Operate at 0.2 to 4.0 degrees Kelvin. (-272.8 to -269 degrees Centigrade) or 4-77 degrees Kelvin. (-269 to -196 degrees Centigrade)

Standard Specifications are as follows: Frequency, 4.0-8.0 GHz | Insertion loss, 0.4 dB | Isolation, 18dB | VSWR, 1.30:1 | Rated power (forward), 10 Watts | Rated power (reverse), 1 Watt | Operating temperature, 0.2-4.0°Kor 4-77 °K | Non operating, -42 to 85 °C | Finish, Bright Nickel plated finish. Dimensions: (w) 28.6 x (h) 48.2 x (t) 16.5 mm Other Frequencies:1.35-1.75, 1.75-2.6, 3.-8, 5.35-6.35. 8-12GHz,

L H H



**FF1 Series** 

is a 380-515MHz, 10% Bandwidth Isolator or Circulator with 100 watts forward and 10 watts reverse power handling typical. Operating over the full temperature range of 20 to +80°C with dimensions of 22 X 45.47 X 15.24 millimeters. Specifications over temperature are insertion loss 0.4dB, isolation 22dB, and VSWR 1.2:1 maximum

Cellular-PCS

ee1 Series 640MHz-2.5GHz at
10-20 % Bandwidth most
economical for PCS, Cellular,
DMB, and Wi-Max applications.
These cover -20 to +85 degrees
C. SMA or N-Type Connectors
available. It has better than 20
dB return loss and 21 dB
isolation, and can handle 120W
forward and 35W reverse
power and up to 500W peak



WiMax / LAN



Coaxial Circulator or Isolator, 2.0-6.0GHz, Split Bands N-Type Connectors, 2, 50 or 100 Watts

2.0-3.0GHz 2.3-3.9GHz 2.5-6.0GHz

Typical Specs
<0.5dB Insertion Loss
>18dB Isolation
<1.35:1 VSWR

Microwave

5.8-27 GHz at 10-20% Bandwidth bb1 Series 1-2 Watts Reverse power and 10 Watts Forward power. Connector options include SMA, 3.5 and 2.9(K).



**Isolators and Circulators Coaxial Overview** 

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04/01/17