EC MICROWAVE
The door to the RF world

Ferrite Devices

OIS-180210-04-18-51

Model OIS-180210-04-18-51 is a WR-51 waveguide junction isolator that covers the frequency range of 18 to21GHz.

The waveguide junctionisolator is designed and manufactured to provide low insertion loss andmoderate isolation for system integration. Compared with a Faradayisolator,it offers lower insertion loss and a much shorter insertionlength.

The WR-51 offers 18dB minimum isolation and 0.4dBmaximum insertion loss with good flatness.The input and output portsare WR-51 waveguides with UG-419/U-MS quare flanges.The isolatorimplements a U shaped magnet shielding steel cover to protect it frommagnetic field interface.

Features

- Low Insertion Loss
- Moderate Isolation
- Compact Configuration

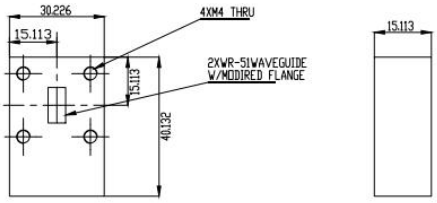
Applications

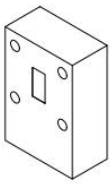
- Port Isolation
- Module Integration

Electrical Specifications

RF Frequency Range(GHz)	18-21
Insertion Loss(dB)	0.4
Isolation(dB)	18
VSWR	1.4:1
Forward Power Handling(W)	5
Reverse Power Handling(W)	2
Operating Temperature	-40 °C~+85 °C

PRODUCT DIMENSIONS





Note:

- All data are presented using a limited sample lot. Actual data may vary unit to unit.
- All testing was performed under +25 ˚C case temperature.
- Millimeter, Inc. reserves the right to change the information presented without notice.
- Other mechanical configurations are available under different model number.

Caution:

- Exceeding absolute maximum ratings of the device will damage the device.
- The device is magnetically sensitive. Keep a safe distance from magnetic fields.
- Any foreign objects in the waveguide will degrade performance and/or damage the device.

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