

Ferrite Devices

OIS-170190-02-20-42

Model OIS-170190-02-20-42 is a K band waveguide junction isolator that covers the frequency range of 17.2 to 19.4GHz. Compared with a Faraday isolator, the waveguide junction isolator offers a lower insertion loss and a much shorter insertion length for system integration.

As a tradeoff, the waveguide junction isolator offers a typical insertion loss of 0.2dB and an isolation of 20 dB, respectively.

The isolator is magnetic shielded and is ready for system integration.

The input and output ports are WR-42 waveguides UG-595/U flanges with 4-40 threaded holes.



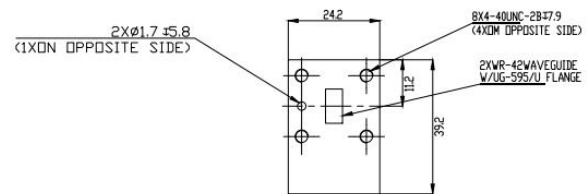
Features

Low Insertion Loss
Moderate Isolation
Compact Configuration

Applications

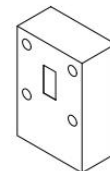
Port Isolation
Module Integration

PRODUCT DIMENSIONS



Electrical Specifications

RF Frequency Range(GHz)	17.2-19.4
Insertion Loss(dB)	0.2
Isolation(dB)	20
Return Loss	15 dB
Forward Power Handling(W)	5
Reverse Power Handling(W)	1
Specification Temperature	+25 °C
Operating Temperature	-40 °C~+85 °C



Test

Typical Performance vs. Frequency

