

## Circulator

The device is designed to solve the problem of optical communication lines compaction at a single wavelength. Principle of operation is based on the non-reciprocal rotation effect of the polarization plane in Faraday rotators.

This device is implemented on micro-optical, birefringent, magneto-optical elements. The functional unit of the circulator is built on volume optics: YIG, rutile, prisms.

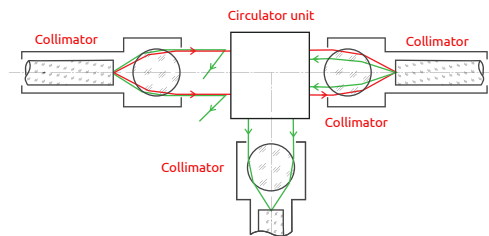
### KEY FEATURES:

- Vibration resistance
- No fiber welding

### APPLICATION:

- Fiber lasers and amplifiers
- Fiber sensors
- Telecommunication systems
- High power systems
- Duplex systems

### DIMENSIONS



Circulator operation scheme

### SPECIFICATION:

Circulator type	With single stage isolation	With two-stage isolation
Operation wavelength, nm	1530-1560	1530-1560
Insertion loss, dB	1.0	1.2
1-3 isolation, dB	50	50
2-1 isolation, dB	40	55
Return loss, dB	-55	-60
Polarization sensitivity, dB	0.1	0.15
Operating temperature, °C	-10...+60	