

## 1310/1550nm 3 port Multimode Optical Circulator

### Key Features

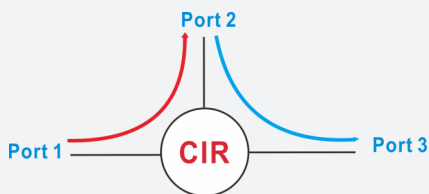
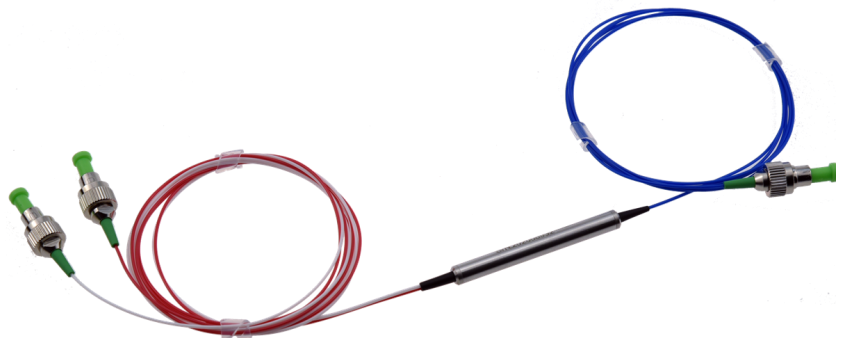
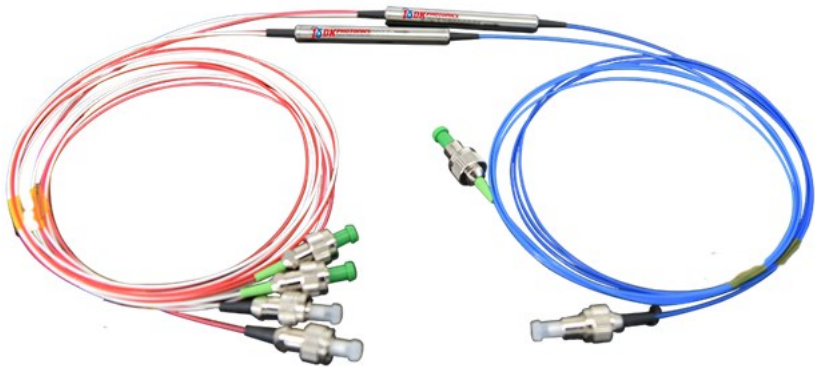
- Low Insertion Loss
- High Isolation
- High Stability and Reliability
- Cost Effective

The 1550nm 3 port Multimode Optical Circulator is a compact, high-performance light-wave component that routes incoming signals from Port 1 to Port 2, and incoming Port 2 signals to Port 3. So, fiber optic circulators act as signal routers, transmitting light from an input fiber to an output fiber, but directing light that returns along that output fiber to a third port. They perform a similar function as an isolator, protecting the input fiber from return power, but also allowing the rejected light to be employed.

If you do not see a standard Optical Circulator that meets your needs, we welcome the opportunity to review your desired specification and quote a custom circulator. Requests for custom fiber pigtails, different wavelengths and handling power of operation or other specific needs will be readily addressed

### Applications

- Optical Fiber Amplifier
- Pump Laser Source
- Fiber Optic Sensor
- Test and Measurement
- Instrumentation



## For more Info

### Please contact us at:

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E-mail: [sales@dkphotonics.com](mailto:sales@dkphotonics.com)

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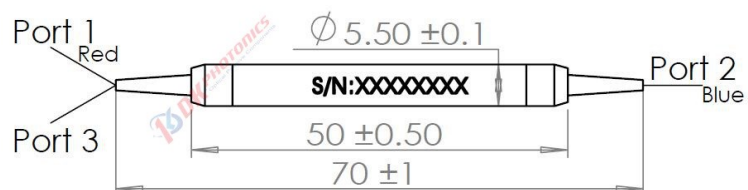
Add.:

4F, Bldg. 18, Qinghu Industrial Park,

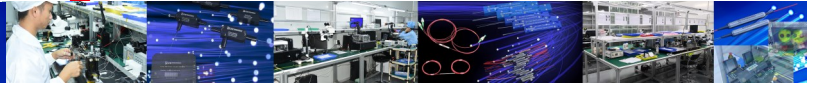
Dahe Road, Longhua Dis.,

Shenzhen, China 518109

### Package Dimension:



\*Due to ongoing design improvements, the package size is subject to change. Please contact DK Photonics for confirmation if you have special requirements.



## 1310/1550nm 3 port Multimode Optical Circulator

### Performance Specifications

Parameter	Unit	Values
Configuration	-	Port 1 to Port 2 to Port 3
Center Wavelength ( $\lambda_c$ )	nm	1310,1550
Operating Wavelength Range	nm	$\lambda \pm 30$
Min. Isolation, $\lambda_c$ , 23°C (2->1,3->2)	dB	20
Typical Insertion Loss, 23°C	dB	0.8
Max. Insertion Loss, 23°C	dB	1.2
Min. Return Loss	dB	30
Min. Cross Talk	dB	50
Max. Polarization Mode Dispersion	ps	0.1
Max. Polarization Dependent Loss, 23°C	dB	0.15
Maximum Power Handling (total pass, continuous)	W	0.3, 1, 3, 5
Max. Tensile Load	N	5
Fiber Type	-	50/125um or 62.5/125um MM fiber
Operating Temperature	°C	0 ~+70
Storage Temperature	°C	-40 ~+85
Dimensions	mm	Ø5.5 x L50

1. Above specification are for device without connector and may change without notice.
2. IL is 0.3 dB higher and RL is 5 dB lower for each connector added.
3. The pass optical power is 2 W only for connector added.
4. Tested parameters may be inconsistent with different multi-mode light sources used.

### Order information P/N: MMOC-①-②-③-④-⑤-⑥-⑦

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better. If need any connector, we do not recommend choosing a 250µm bare fiber pigtail.

①	②	③	④	⑤	⑥	⑦
Port	Wavelength	Power Handling	Fiber type	Pigtails Diameter	Fiber Length	Connector
3:3-port	13:1310nm	L:<0.5W	M502:50/125 OM2 fiber	25:250µm bare fiber	05:0.5m	00: None
	15:1550nm	1:1W	M62:62.5/125 fiber	90:900µm Loose Fiber	10:1.0m	FP: FC/PC
	XX: other	3:3W 5:5W	XX: fiber code	XX: Others	15:1.5m XX: Others	FA: FC/APC SP: SC/PC LP: LC/PC XX: Others

**Part Number Example :** MMOC-3-15-L-M62-90-10-FA

**Description:** 3 ports 1550nm Multimode Optical Circulator, 300mW power handling, 62.5/125um MM fiber, with 0.9mm OD loose tube, 1.0m length fiber pigtails, FC/APC connectors at all ports.

### Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.