2000nm Polarization Maintaining Optical Circulator (Fast axis blocked)

Key Features

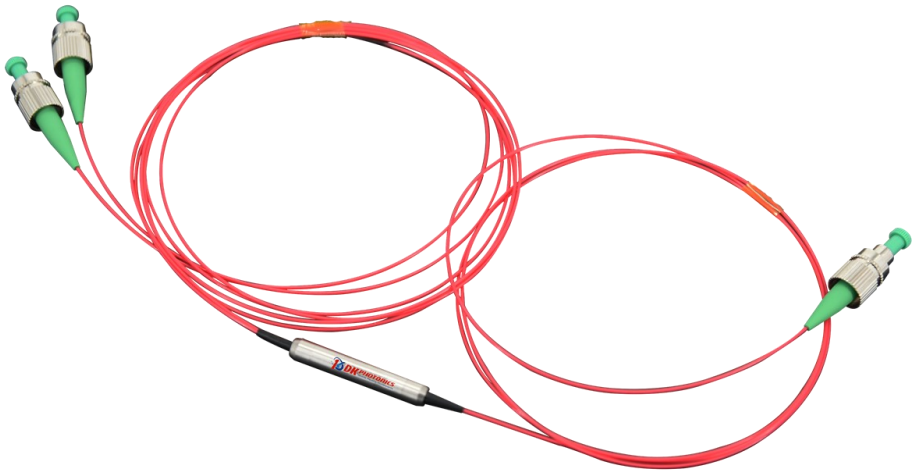
- Compact size
- High Isolation
- High Extinction Ratio
- Low Cost
- High Stability & Reliability

The polarization maintaining 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

- Fiber Amplifiers
- Fiber Sensor
- Test and Measurement
- Coherent Detecting



For more Info

Please contact us at:

Tel: +86-755-23736280

Fax: +86-755-26746512

E-mail: sales@dkphotonics.com

https://www.dkphotonics.com

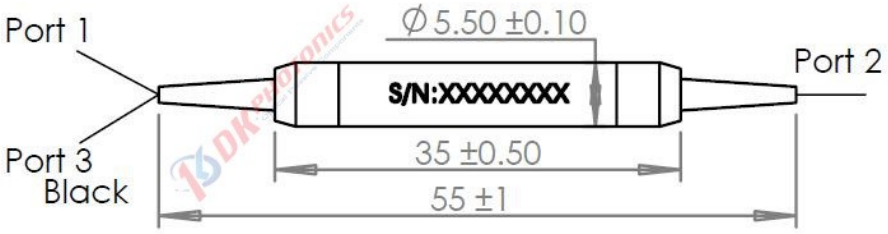
Add.:

4F, Bldg. 18, Qinghu Industrial Park,

Dahe Road, Longhua Dis.,

Shenzhen, China 518109

Package Dimension:



The transmission optical path: 1 -> 2, 2 -> 3

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

DK PHOTONICS Optical Passive Components

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Performance Specifications

Parameter	Unit	Values
Axis	-	Fast axis blocked
Center Wavelength	nm	2000
Port	-	3
Isolation level	-	Type B
Operating Wavelength Range	nm	±30
Min. Isolation at 23°C in band	dB	16
Typ. Insertion Loss at 23°C	dB	1.2
Max. Insertion Loss at 23°C	dB	1.5
Min. Extinction Ratio at 23°C	dB	18
Min. Return Loss	dB	50
Min. Cross Talk	dB	40
Max. Power Handling (total input, continuous wave)	W	0.5
Max. Tensile Load	N	5
Fiber Type	-	PM1550 or PM1950, PM-GDF-10/130-2000-M fiber
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85
Package Dimensions	mm	Ø5.5 x L35

1. Above specifications are for device without connector.

2. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower. The default connector key is aligned to slow axis.

3. If there is pulse application, please be sure to inform us of pulse energy and peak power.

4. For high power applications, we will use heat sink package, contact DK Photonics for details.

Order information

P/N: PMOC-①-②-③-④-⑤-⑥-⑦-⑧-⑨

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	⑧	⑨
Port	Operating Wavelength	Axis	Isolation level	Power Handling	Fiber type	Pigtails Diameter	Fiber Length	Connector
3:3-port	2000:2000nm XX: Others	F: Fast axis blocked	B: Type B	L:<0.5W XX: Others	P15:PM1550 P19:PM1950 XX: fiber name	25:250μm bare fiber 90:900μm Loose tube XX: Others	05:0.5m 10:1.0m 15:1.5m XX: Others	00: None FP: FC/PC FA: FC/APC XX: Others

Part Number Example: PMOC-3-1940-F-B-L-P19-90-10-FA
Description: 1940nm 3-port Polarization Maintaining Optical Circulator, 0.5W, Fast axis blocked, Type B, PM1950 fiber, with 0.9mm OD loose tube, 1.0m length fiber and 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.