

## 1940nm 3-port High Power PM Optical Circulator (Fast axis blocked)

### Key Features

- Low Insertion Loss
- High Extinction Ratio
- High Return Loss
- High Isolation
- High stability & Reliability

The 2000nm polarization maintaining optical circulator is a compact, high performance lightwave 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.

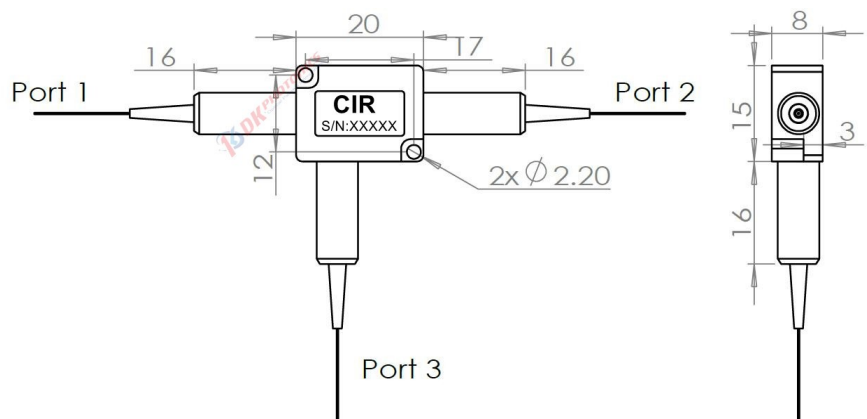
If you do not see a standard Optical Circulator that meets your needs, we welcome the opportunity to review your desired specification and quote a custom circulator. Requests for custom fiber pigtailed, different wavelengths and handling power of operation or other specific needs will be readily addressed.

### Applications

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



### 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.

## For more Info

### Please contact us at:

Tel: +86-755-23736280

Fax: +86-755-26746512

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

<https://www.dkphotonics.com>

Add.:

4F, Bldg. 18, Qinghu Industrial Park,

Dahe Road, Longhua Dis.,

Shenzhen, China 518109

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### Performance Specifications

Parameter	Unit	Values
Operating Wavelength	nm	1940
Min. Isolation at 23°C, $\lambda_c \pm 30\text{nm}$	dB	16
Max. Insertion Loss at 23°C, $\lambda_c \pm 30\text{nm}$	dB	1.5
Min. Extinction Ratio	dB	18
Min. Return Loss	dB	50
Min. Crosstalk	dB	40
Axis Alignment	-	fast axis blocked, slow axis working
Max. Optical Power (CW)	W	2, 5, 10
Max. Peak Power for ns Pulse if any	KW	10
Fiber Type	-	PM1550 or PM1950, PM-GDF-10/130-2000-M fiber
Operating Temperature	°C	-5~+70
Storage Temperature	°C	-40~+85
Package Dimension	mm	20x15x8

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. Power transmits through the connector less than 2W.

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

### Order information P/N: HPPMOC-①-②-③-④-⑤-⑥-⑦-⑧

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 250 $\mu\text{m}$  bare fiber pigtail.

①	②	③	④	⑤	⑥	⑦	⑧
Port	Operating Wavelength	Axis	Power Handling	Fiber type	Pigtails Diameter	Fiber Length	Connector
3:3-port	1940:1940nm	F: Fast axis blocked	1:2W	P15: PM1550	25:250 $\mu\text{m}$ bare fiber	05:0.5m	00: None
	2000:2000nm		3:3W	P19: PM1950	90:900 $\mu\text{m}$ Loose tube	10:1.0m	FP: FC/PC
	2050:2050nm		5:5W	XX: Others	XX: Others	15:1.5m	FA: FC/APC
	2100:2100nm		10:10W			XX: Others	XX: Others
	XX: Others						

**Part Number Example:** HPPMOC-3-1940-F-5-P19-25-10-00

**Description:** 1940nm 3-port HP Polarization Maintaining Optical Circulator ,5W, Fast axis blocked, PM1950 fiber, with bare fiber,1.0m length fiber and no connectors at all ports.

### Ordering Information for Custom Parts

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