

## TGG Based 680nm Optical Circulator

### Key Features

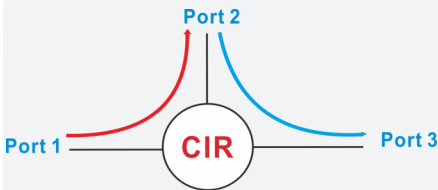
- Low Insertion Loss
- High Isolation
- PM and Non-PM are available
- Fiber can be customized
- High Reliability
- Excellent Temperature Stability

The TGG Based Optical Circulator is a high-performance light-wave component that routes incoming signals from Port 1 to Port 2, and incoming Port 2 signals to Port 3. They're characterized with low insertion loss, high isolation, high power handling, high return loss, low PDL, excellent environmental stability and reliability. They are ideal for fiber laser and instrumentation applications.

If you do not see a standard 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 Optic Amplifiers
- Fiber Optic Laser
- Test and Measurement
- Instrumentation



## 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>

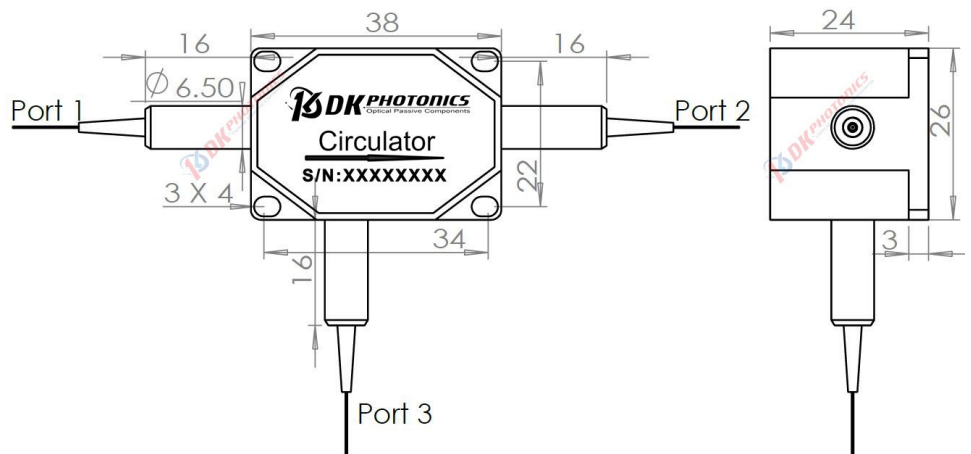
Add.:

4F, Bldg. 18, Qinghu Industrial Park,

Dahe Road, Longhua Dis.,

Shenzhen, China 518109

### 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.



## TGG Based 680nm Optical Circulator

### Performance Specifications

Parameter	Unit	Values
Operation Wavelength	nm	680
Operating Wavelength Range	nm	±5
Typ. Peak Isolation	dB	25
Min. Isolation, λc, 23 °C	dB	20
Typ. Insertion Loss, 23 °C	dB	1.2
Max. Insertion Loss, 23 °C	dB	1.8
Max. PDL (for SM fiber)	dB	0.20
Min. Cross Talk	dB	45 (Typ. 50)
Min. Return Loss	dB	45
Maximum Power Handling (continuous wave)	mW	300 mW (With Connectors or Bare Fiber), 500 mW (Spliced)
Max. Tensile Load	N	5
Fiber Type	-	630-HP
Operating Temperature	°C	0 ~ +60
Storage Temperature	°C	-10 ~ +75

- Above specification are for device without connector and may change without notice.
- IL is 1.5 dB higher and RL is 5 dB lower for each connector added.

### Order information

P/N: PIOC-①-②-③-④-⑤-⑥

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
Port	Operating Wavelength	Fiber Type	Fiber Diameter	Fiber Length	Connector
3:3-port	680:680nm xx:other	S63:630-HP XX: fiber code	25:250μm bare fiber 90:900μm Loose Fiber 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** : PIOC-3-680-S63-90-10-00

**Description:**680nm 3-port Polarization Insensitive Optical Circulator, 630-HP fiber, with 0.9mm OD loose tube, 1.0m length fiber pigtails, without connectors

### Ordering Information for Custom Parts

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