



680nm TGG Based Optical Isolator

Key Features

- High isolation
- Low insertion loss
- Cost Effective
- Excellent environmental stability and reliability

The TGG Based Optical Isolator is characterized with low insertion loss, high isolation, high return loss, excellent environmental stability and reliability. It has been widely used in lasers, transmitters and other fiber optics communication equipment to suppress back reflection and back scattering.

DK Photonics offers a large selection of polarization insensitive or polarization maintaining fiber-in to fiber-out isolators. These devices can handle powers rang from 300mW to 150W or other on request, and have center operating wavelengths ranging from 500nm to 2100nm.

If you do not see a standard isolator that meets your needs, we welcome the opportunity to review your desired specification and quote a custom isolator. Requests for custom fiber pigtails, 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

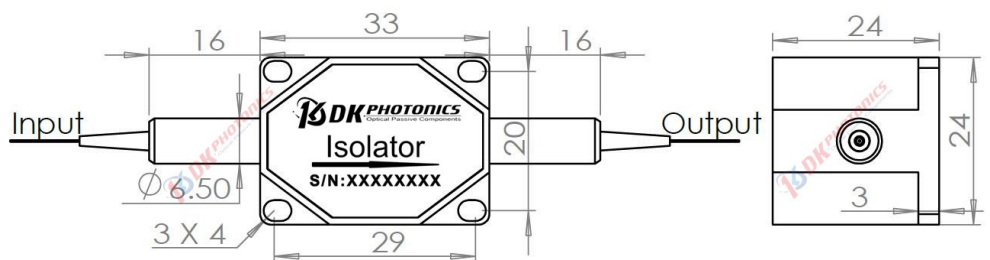
E-mail: sales@dkphotonics.com

<https://www.dkphotonics.com>

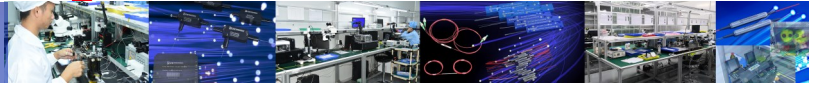
Add.:

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.



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Performance Specifications

Parameters	Unit	Values
Central Wavelength	nm	680
Operating Wavelength Range	nm	±5
Typ. Peak Isolation	dB	30
Min. Isolation in Band (at 23°C)	dB	25
Typ. Insertion Loss	dB	1.6
Max. Insertion Loss (at 23°C)	dB	2.0
Max. PDL(for SM fiber)	dB	0.20
Min. Return Loss	dB	45
Maximum Power Handling (continuous wave)	mW	100
Max. Tensile Load	N	5
Fiber Type	-	630-HP, or other
Operating Temperature	°C	0 ~ + 70
Storage Temperature	°C	-40 ~ +85
Dimensions	mm	33x24x24

1. Above specification are for device without connector, and may change without notice.
2. For devices with connectors, IL will be 1.0dB higher, RL will be 5dB lower.

Order information P/N: ISO -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
Wavelength	Optical Power	Power Type	Fiber Type	Pigtails Diameter	Fiber Length	Connector Type
635:635nm 680:680nm XX: Other	S:<100mW	C: Continuous Wave	XX: fiber code	25:250µm bare fiber 90:900µm Loose Fiber XX: Others	10:1.0m XX: Other	00: None FP: FC/PC FA: FC/APC XX: Others

Part Number Example: ISO-680-S-C-S63-90-10-FA

Description: TGG Based 680nm Optical Isolator, 0.1W power handling, continuous wave power, 630-HP 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.