780~1100nm TGG Based Dual stage Optical Isolator

Key Features

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

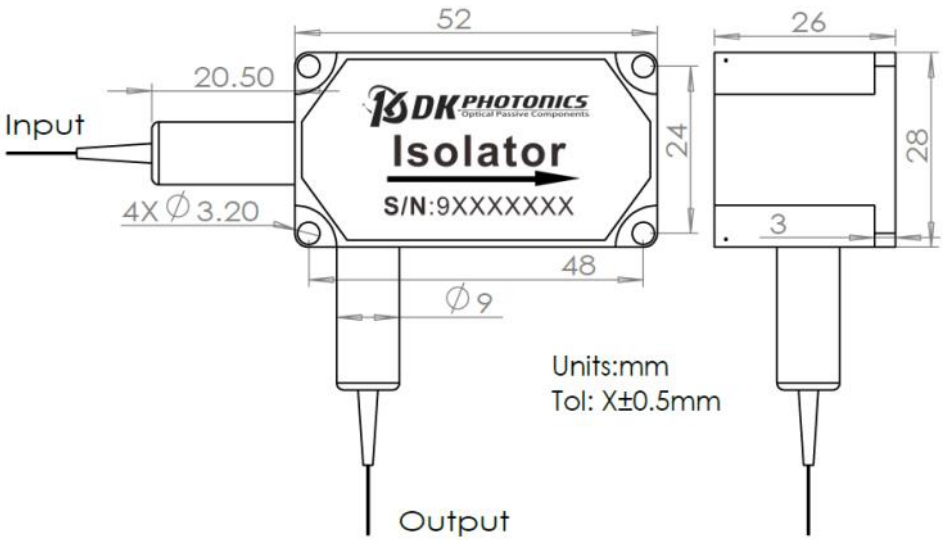
The Optical Isolator is characterized with low insertion loss, high isolation, high return loss, excellent environmental stability and reliability. It has been widely used in lasers, transmitters and other fiber optics communication equipment to suppress back reflection and back scattering.

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

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

https://www.dkphotonics.com

Add.:

4F, Bldg. 18, Qinghu Industrial Park,

Dahe Road, Longhua Dis.,

Shenzhen, China 518109

DK PHOTONICS Optical Passive Components

780~1100nm TGG Based Dual stage Optical Isolator

Performance Specifications

Parameters	Unit	Values			
Central Wavelength	nm	780, 808, 850,930	980	1030	1064,1080
Operating Wavelength Range	nm	±10			
Typ. Peak Isolation	dB	50	55	55	55
Min. Isolation in Band (at 25°C)	dB	40	40	40	40
Typ. Insertion Loss	dB	1.0	1.0	0.8	0.8
Max. Insertion Loss (at 25°C)	dB	1.5	1.5	1.2	1.2
Max. PDL(for SM fiber)	dB	0.15			
Min. Return Loss	dB	45			
Maximum Power Handling (continuous wave)	W	0.5,1, 2, 5,10			
Max. Peak Power for ns Pulse	kW	1, 5,10			
Max. Tensile Load	N	5			
Fiber Type	-	780-HP, or other	1060-XP fiber, 10/125DC or other		
Operating Temperature	°C	0 ~ + 70			
Storage Temperature	°C	-40 ~ +85			

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.

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. For high power applications, we recommend direct splicing without connectors.

①	②	③	④	⑤	⑥	⑦
Wavelength	Optical Power	Power Type	Fiber Type	Pigtails Diameter	Fiber Length	Connector Type
78:780nm 85:850nm 98:980nm 30:1030nm 64:1064nm 80:1080nm XX: Other	L:<0.5W 1:1W 3:3W 5:5W 10:10W	P:Pulsed 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 #1: DSISO-85-L-C-S78-90-10-FA

Description: TGG Based 850nm Dual stage Optical Isolator, 0.5W power handling, continuous wave power, 780-HP fiber, with 0.9mm OD loose tube, 1.0m length fiber pigtails, FC/APC connectors at all ports.

Part Number Example #2: DSISO- 64-10-P-06X-25-10-00

Description: TGG Based 1064nm Dual stage Optical Isolator, 10W power handling, pulsed power<10kW, 1060-XP fiber, with bare fiber,1.0m length fiber pigtails, no connectors at all ports.

Ordering Information for Custom Parts

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