

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.

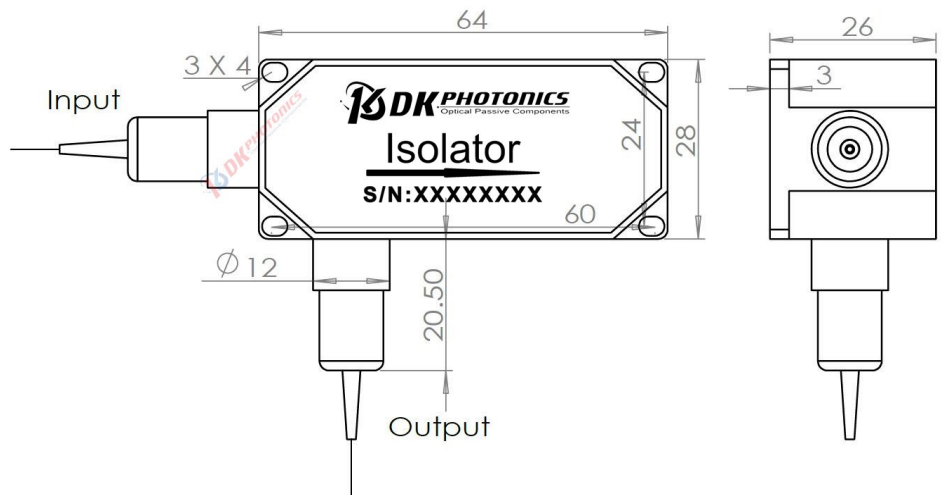
If you do not see a standard isolator that meets your needs, we welcome the opportunity to review your desired specification and quote a custom isolator. Requests for custom fiber pigtailed, different wavelengths and handling power of operation or other specific needs will be readily addressed.

Applications

- Fiber Optic Amplifiers
- Fiber Optic Laser
- Test and Measurement
- Instrumentation



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

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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	L:<0.5W	P:Pulsed	XX: fiber code	25:250μm bare fiber	10:1.0m	00: None
85:850nm	1:1W	C:Continuous		90:900μm Loose Fiber	XX: Other	FP: FC/PC
98:980nm	3:3W	Wave		XX: Others		FA: FC/APC
30:1030nm	5:5W					XX: Others
64:1064nm	10:10W					
80:1080nm						
XX: Other						

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.