



Key Features

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

500~1100nm TGG Based Optical Isolator

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



Package Dimension:

For more Info

Please contact us at:

Tel: +86-755-23736280

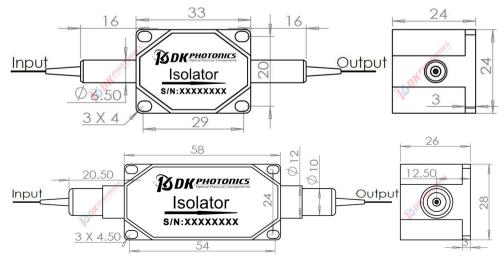
Fax: +86-755-26746512

E-mail: sales@dkphotonics.com

https://www.dkphotonics.com

Add.:

4F, Bldg. 18, Qinghu Industrial Park, Dahe Road, Longhua Dis., Shenzhen, China 518109



*Due to ongoing design improvements, the package size is subject to change. Please contact DK Photonics for confirmation if you have special requirements.





Performance Specifications

500~1100nm TGG Based Optical Isolator

Parameters	Unit			Values			
Central Wavelength	nm	532	635, 680	780, 808, 850, 930	980	1030	1064, 1080
Operating Wavelength Range	nm	±5	±5	±10		±10	
Typ. Peak Isolation	dB	30	30	30	30	33	33
Min. Isolation in Band (at 23°C)	dB	25	25	25	25	26	26
Typ. Insertion Loss	dB	1.8	1.6	1.0	0.8	0.6	0.8
Max. Insertion Loss (at 23°C)	dB	2.0	2.0	1.5	1.2	1.0	1.2
Max. PDL(for SM fiber)	dB	0.20		0.15			
Min. Return Loss	dB			45			
Maximum Power Handling (continuous wave)	W	0.05	0.1	0.5,1, 2, 5,10	0.5,1, 2, 5,10,20		
Max. Peak Power for ns Pulse	kW	/	1	1, 5,10		1, 5,10	
Max. Tensile Load	Ν			5			
Fiber Type	-	460-HP,	630-HP or	780-HP, or	1060-	1060-XI	P, 10/125
		or other	other	other	XP	SC, c	or other
Operating Temperature	°C			0 ~ + 70			
Storage Temperature	°C			-40 ~ +85			
Dimensions	mm	33>	(24x24		58x28x	26	

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	\bigcirc
Wavelength	Optical Power	Power Type	Fiber Type	Pigtails Diameter	Fiber Length	Connector Type
532:532nm	S:<0.1W	P: Pulsed C: Continu- ous Wave	XX/XX/XX/XX (core/clad/core NA/clad NA) or fiber name	25:250µm bare fiber	10:1.0m	00: None
635:635nm	L:<0.5W			90:900µm Loose Fiber	XX: Other	FP: FC/PC
68:680nm	1:1W			XX: Others		FA: FC/APC
85:850nm	3:3W					XX: Others
78:780nm	5:5W					
XX: Other	10:10W					

Part Number Example #1: ISO-98-L-C-06X-90-10-FA

Description: TGG Based 980nm Optical Isolator, 0.5W power handling, continuous wave power, 1060-XP 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.