Kernstech

980-1080nm 50W/100W TGG High Power Optical Isolator

Kerns Technology | www.kernsoptic.com | Email: jenny@kernsoptic.com

Product Overview

High-power TGG optical isolator for 980-1080 nm fiber-laser systems, available in 50 W and 100 W average-power classes with large-mode-area fiber options.

Features	Applications
Low insertion loss; High return loss; High isolation; High stability and reliability	PM fiber amplifiers; Test instruments; MOPA fiber lasers; Fiber lasers

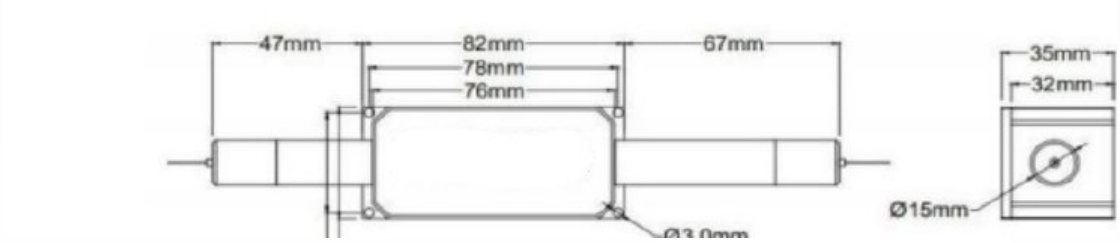
Technical Specifications

Parameter	Specification	Unit
Center Wavelength	1064, 1030, 980 or specified	nm
Operating Wavelength Range	±5	nm
Typical Peak Isolation @ 23°C	30	dB
Min. Isolation @ 23°C	26	dB
Typical Insertion Loss @ 23°C	0.8	dB
Max. Insertion Loss @ 23°C	1.0	dB
Min. Extinction Ratio @ 23°C (PM fiber)	20	dB
Max. PDL @ 23°C (SM fiber)	0.15	dB
Min. Return Loss (Input / Output)	45	dB
Max. Average Power	50 / 100	W
Max. ns Pulse Peak Power	10 or specified	kW
Package Dimensions	76 x 38 x 35	mm
Max. Tensile Load	5	N
Operating Temperature	+10 to +50	°C
Storage Temperature	0 to +60	°C

For configuration selection and quotation, use the Component Finder at www.kernsoptic.com/contacts. Final special configurations are subject to engineering review.

Connectorized configurations are not listed for the 50 W / 100 W ordering option in the master catalog. Final fiber type, pigtail protection and power class must be confirmed by Engineering Review.

Package Dimensions



Mechanical drawing from the KernsTech master catalog. Standard package: 76 x 38 x 35 mm.