

780-1080nm 20W TGG High Power In-Line Optical Isolator

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

Product Overview

TGG-based in-line optical isolator for 780-1080 nm fiber-laser and amplifier systems requiring high isolation and high optical-power handling. PM and SM fiber configurations are listed in the KernsTech master catalog.

Features

Low insertion loss; High return loss; High isolation; High stability and reliability

Applications

PM fiber amplifiers; Test instruments; MOPA fiber lasers; Fiber lasers

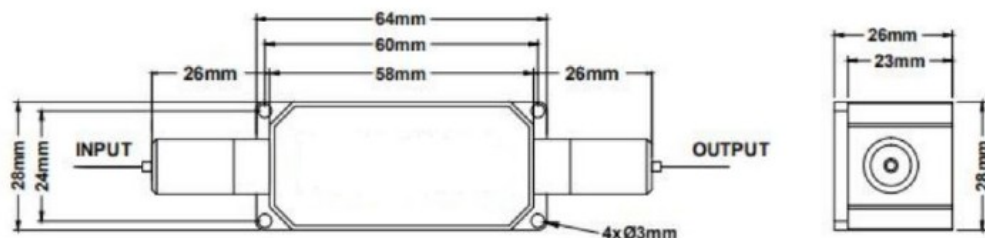
Technical Specifications

Parameter	Specification	Unit
Center Wavelength	1064, 1030, 980, 780 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	0.3, 1, 5, 10 or specified	W
Max. ns Pulse Peak Power	10 or specified	kW
Package Dimensions	58 x 28 x 26	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.

Catalog consistency note: the product title / ordering options identify a 20 W series, while the performance table lists 0.3, 1, 5, 10 W or specified. Confirm a 20 W configuration with KernsTech Engineering before quotation. With connectors, handling power is limited to 1 W; IL increases by 0.3 dB, RL decreases by 5 dB and ER decreases by 2 dB. Connector key aligns with the slow axis.

Package Dimensions



Mechanical drawing from the KernsTech master catalog. Standard package: 58 x 28 x 26 mm.