

1064nm 2W In-Line Optical Isolator

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

Product Overview

In-line optical isolator for 1064 nm fiber amplifiers and fiber-laser systems. Single-stage and dual-stage versions support average optical power up to 2 W in the standard catalog.

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

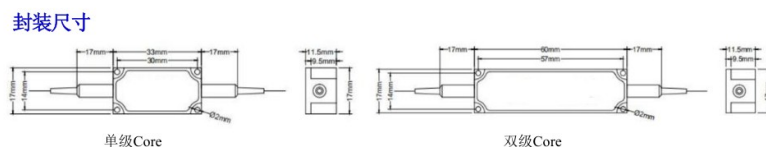
Technical Specifications

Parameter	Specification	Unit
Grade	Single / Dual	-
Center Wavelength	1064	nm
Operating Wavelength Range	±5	nm
Typical Peak Isolation @ 23°C	35 / 50	dB
Min. Isolation @ 23°C	27 / 45	dB
Max. IL @ 23°C (baseline)	1.7 / 3.8	dB
Max. IL @ 300 mW input	2.0 / 4.0	dB
Max. IL @ 1 W input	2.5 / 4.5	dB
Max. IL @ 2 W input	3.0 / 5.5	dB
Min. Extinction Ratio (PM fiber)	20	dB
Max. PDL (SM fiber)	0.15	dB
Min. Return Loss	45	dB
Max. Average Power	0.5 / 1 / 2	W
Max. ns Pulse Peak Power	10	kW
Package Dimensions	33 x 17 x 11.5 / 60 x 17 x 11.5	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.

Single / Dual values are shown in the same order throughout the table. With connectors, power handling is limited to 1 W; IL increases by 0.3 dB, RL decreases by 5 dB and ER decreases by 2 dB.

Package Dimensions



Mechanical drawings from the KernsTech master catalog for single-core and dual-core packages.