

1064nm / 1030nm 10W TGG High Power In-Line Optical Isolator

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

Product Overview

TGG-based high-power in-line optical isolator for 1064 nm and 1030 nm fiber-laser systems, with average power options up to 10 W in the standard catalog.

Features	Applications
Low insertion loss; High return loss; High isolation; High stability and reliability	PM fiber amplifier; Test instrument; MOPA fiber laser; Fiber laser

Technical Specifications

Parameter	Specification	Unit
Center Wavelength	1064 / 1030	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. Polarization Dependent Loss @ 23°C (SM fiber)	0.15	dB
Min. Return Loss (Input / Output)	45	dB
Max. Average Power	1 / 2 / 5 / 10 / Specified	W
Package Dimensions	65 x 17 x 16	mm
Max. ns Pulse Peak Power	10 / Specified	kW
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. Select the wavelength, optical power, fiber, connector and other requirements online before requesting a quote.

Note: With connectors, power handling is limited to 1 W; insertion loss increases by 0.3 dB, return loss decreases by 5 dB, and extinction ratio decreases by 2 dB.

Package Dimensions

