Kernstech

780-1080nm 100W TGG Free Space Optical Isolator

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Product Overview

Free-space TGG optical isolator for high-power laser systems operating from 780 to 1080 nm, with two aperture / housing options for different beam sizes.

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

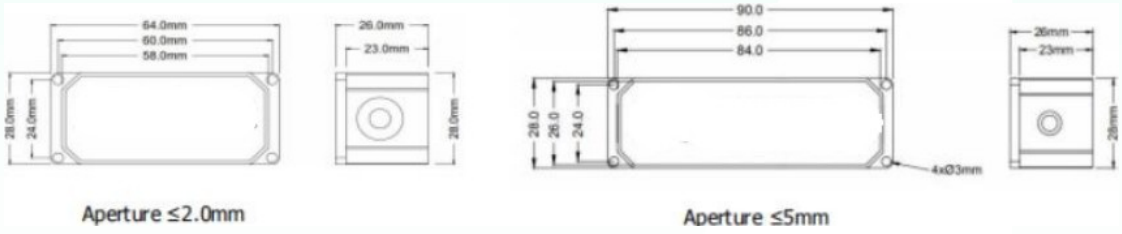
Technical Specifications

Parameter	Specification	Unit
Center Wavelength	1064, 1030, 980, 780 or specified	nm
Operating Wavelength Range	±5	nm
Peak Transmission @ 23°C	95	%
Typical Peak Isolation @ 23°C	30	dB
Min. Isolation @ 23°C	26	dB
Typical Insertion Loss @ 23°C	0.15	dB
Max. Insertion Loss @ 23°C	0.3	dB
Min. Return Loss (Input / Output)	50	dB
Max. Average Power	5, 10, 20 or specified	W
Clear Aperture	≤2.0 / ≤5.0	mm
Package Dimensions	58 x 28 x 26 / 84 x 28 x 26	mm
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 and ordering code include a 100 W class, while the performance table lists 5, 10, 20 W or specified. Confirm the exact 100 W free-space configuration, aperture and housing with KernsTech Engineering before quotation.

Package Dimensions



Mechanical drawings from the KernsTech master catalog. 58 x 28 x 26 mm for ≤2.0 mm aperture; 84 x 28 x 26 mm for ≤5.0 mm aperture.