Kernstech

980-1080nm 10W Dual Stage TGG Optical Isolator

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Product Overview

Dual-stage TGG in-line optical isolator for 980-1080 nm systems where substantially higher isolation is required in fiber amplifiers, MOPA fiber lasers and test setups.

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

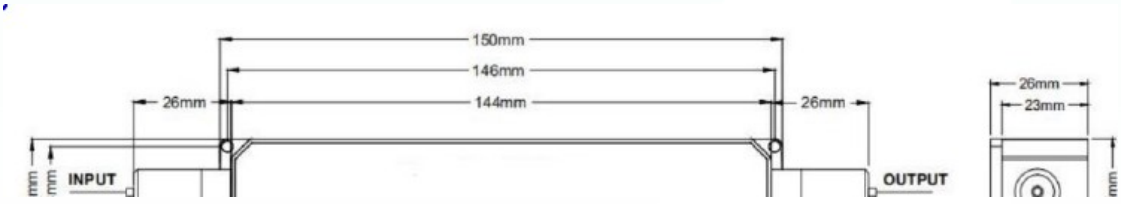
Technical Specifications

Parameter	Specification	Unit
Stage	Dual stage	-
Center Wavelength	1064, 1030, 980 or specified	nm
Operating Wavelength Range	±5	nm
Typical Peak Isolation @ 23°C	65	dB
Min. Isolation @ 23°C	50	dB
Typical Insertion Loss @ 23°C	0.8	dB
Max. Insertion Loss @ 23°C	1.2	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	0.5, 1, 5, 10, 20 or specified	W
Max. Pulse Peak Power	10 or specified	kW
Package Dimensions	144 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 page title / table of contents states 64 x 28 x 26 mm, while the detailed performance table and ordering information specify 144 x 28 x 26 mm. This V3 datasheet preserves the detailed-table value and flags the discrepancy for Engineering Review. The title states up to 10 W, while the performance / ordering rows also list 20 W; confirm configurations above 10 W before quotation.

Package Dimensions



Mechanical drawing from the KernsTech master catalog. Detailed table / ordering reference: 144 x 28 x 26 mm.