

1310-1550nm 20W High Power Optical Isolator

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Product Overview

High-power optical isolator for 1310, 1480 and 1550 nm communication, sensing and test systems, with single-stage / dual-stage and PM / SM configuration options.

Features Low insertion loss; High return loss; High extinction ratio; High isolation; High stability and reliability	Applications Communication systems; Test instruments; Fiber sensing; Product R&D
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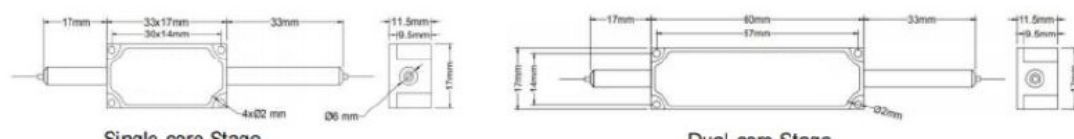
Technical Specifications

Parameter	Specification	Unit
Grade	Single / Dual	-
Center Wavelength	1550, 1480, 1310	nm
Operating Wavelength Range	±20	nm
Typical Peak Isolation @ 23°C	42 / 58	dB
Min. Isolation @ 23°C	28 / 45	dB
Typical Insertion Loss @ 23°C	0.4 / 0.5	dB
Max. Insertion Loss @ 23°C	0.55 / 0.65	dB
Min. Extinction Ratio - Both Axis	20	dB
Min. Extinction Ratio - Fast Axis Blocked	25	dB
Max. PDL (SM fiber)	0.15	dB
Min. Return Loss (Input / Output)	50 / 50	dB
Max. Optical Power (CW)	1, 2, 5 ... 20	W
Max. ns Pulse Peak Power	10 or specified	kW
Max. Tensile Load	5	N
Operating Temperature	0 to +70	°C
Storage Temperature	-40 to +85	°C
Package Options	dia. 5.5 x 35; 70 x 12 x 8; 33 x 17 x 11.5; 60 x 17 x 11.5	mm

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 that order. PM and SM fiber versions are listed in the catalog. 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. Final package selection is subject to Engineering Review.

Package Dimensions



Mechanical drawings from the KernsTech master catalog. Multiple package options are available for single-stage and dual-stage configurations.