

0.3-50W High Power PM In-Line Optical Isolator

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Product Overview

High-power polarization-maintaining in-line isolator for 1030 / 1064 nm systems, covering average power from 0.3 W to 50 W.

Features	Applications
High isolation; PM operation; High-power handling; Compact integrated package	High-power fiber lasers; Fiber amplifiers; Back-reflection protection

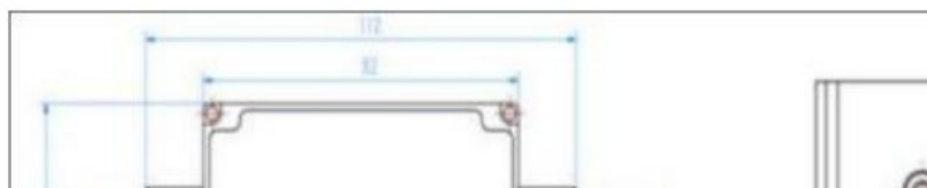
Technical Specifications

Parameter	Specification	Unit
Center Wavelength	1030 / 1064	nm
Operating Wavelength Range	±30	nm
Insertion Loss @ 23°C	≤1.2	dB
Isolation @ 23°C	≥40	dB
Extinction Ratio - Fast Axis Blocked	>20	dB
Extinction Ratio - Both Axis Working	>18	dB
Return Loss	50	dB
Average Power	0.3-50	W
Peak Power	10	kW
Operating Temperature	0 to +50	°C
Storage Temperature	-20 to +85	°C
Package Dimensions	82 x 45 x 44	mm

For configuration selection and quotation, use the Component Finder at www.kernsoptic.com/contacts. Final special configurations are subject to engineering review.

For connectorized devices, IL increases by 0.3 dB, ER decreases by 2 dB, RL decreases by 5 dB and maximum guaranteed handling power is 1 W.

Package Dimensions



Mechanical package drawing from the KernsTech master catalog.