

1030nm 50mW In-Line Optical Isolator

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Product Overview

Compact in-line optical isolator for 1030 nm communication, sensing, test and R&D systems. Single-stage and dual-stage versions are listed in the KernsTech master catalog.

Features	Applications
Low insertion loss; High return loss; High extinction ratio; High isolation; High stability and reliability	Communication systems; Test instruments; Fiber sensors; Product development

Technical Specifications

Parameter	Specification	Unit
Grade	Single / Dual	-
Center Wavelength	1030	nm
Operating Wavelength Range	±5	nm
Typical Peak Isolation @ 23°C	23 / 38	dB
Min. Isolation @ 23°C	20 / 35	dB
Typical Insertion Loss @ 23°C	3.0 / 6.0	dB
Max. Insertion Loss @ 23°C	3.2 / 6.5	dB
Min. Return Loss (Input & Output)	50 / 50	dB
Min. Extinction Ratio - Both Axis Working	20	dB
Min. Extinction Ratio - Fast Axis Block	22	dB
Max. PDL (SM fiber)	0.15	dB
Max. Optical Power (CW)	50	mW
Max. Tensile Load	5	N
Fiber Type	PM Panda fiber or single-mode fiber	-
Operating Temperature	-5 to +50	°C
Storage Temperature	-40 to +85	°C

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 the same order throughout the table.

Package Dimensions

封装尺寸



Mechanical drawing from the KernsTech master catalog. Standard package: dia. 5.5 x 35 mm.