

1310-2050nm 500mW PM Optical Isolator

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Product Overview

Polarization-maintaining optical isolator family covering telecom and near-2 μm wavelengths, with single-stage and dual-stage options for communication, sensing, test and R&D systems.

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

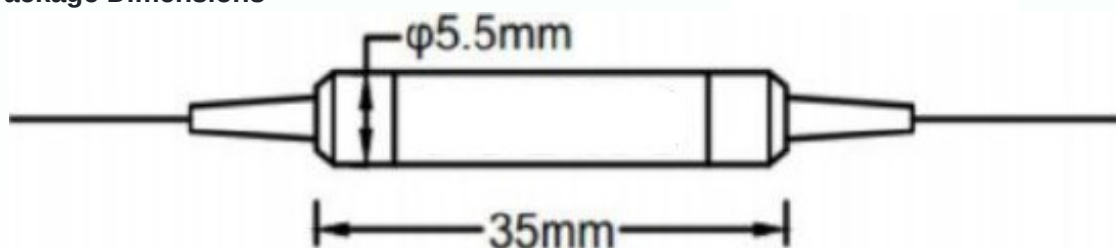
Technical Specifications

Parameter	Specification	Unit
Grade	Single / Dual	-
Center Wavelength	2050, 2000, 1950 / 1550, 1480, 1310	nm
Operating Wavelength Range	± 20	nm
Typical Peak Isolation @ 23°C	20 / 30 (1950-2050); 42 / 58 (1310-1550)	dB
Min. Isolation @ 23°C	18 / 28 (1950-2050); 28 / 45 (1310-1550)	dB
Typical Insertion Loss @ 23°C	0.8 / 1.0 (1950-2050); 0.4 / 0.5 (1310-1550)	dB
Max. Insertion Loss @ 23°C	1.2 / 1.3 (1950-2050); 0.55 / 0.65 (1310-1550)	dB
Min. Extinction Ratio - Both Axis	18 (1950-2050); 20 (1310-1550)	dB
Min. Extinction Ratio - Fast Axis Blocked	20 (1950-2050); 25 (1310-1550)	dB
Min. Return Loss (Input / Output)	50 / 50	dB
Max. Optical Power (CW)	500	mW
Fiber Type	PM Panda fiber	-
Max. Tensile Load	5	N
Operating Temperature	0 to +70	°C
Storage Temperature	-40 to +85	°C
Package Dimensions	dia. 5.5 x 35	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. The isolation and insertion-loss values differ between the 1950-2050 nm wavelength group and the 1310-1550 nm group; retain the wavelength group when comparing values. With connectors, IL increases by 0.3 dB, RL decreases by 5 dB and ER decreases by 2 dB.

Package Dimensions



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