

1310-1550nm Mini PM Optical Isolator

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Product Overview

Ultra-compact PM isolator for 1310, 1480 and 1550 nm communication, sensing, test and product-development systems.

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

Technical Specifications

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

Parameter	Single Stage	Dual Stage
Typical Peak Isolation @ 23°C	42 dB	58 dB
Min. Isolation @ 23°C	28 dB	45 dB
Typical IL @ 23°C	0.4 dB	0.5 dB
Max. IL @ 23°C	0.55 dB	0.65 dB

Shared Specifications

Parameter	Specification	Unit
Center Wavelength	1550 / 1480 / 1310	nm
Operating Wavelength Range	±20	nm
Min. ER - Both Axis Working	20	dB
Min. ER - Fast Axis Blocked	25	dB
Max. PDL (SM fiber)	0.15	dB
Min. Return Loss (Input / Output)	50 / 50	dB
Max. Optical Power (CW)	500	mW
Max. Tensile Load	5	N
Package Dimensions	dia. 2.5 x 20	mm
Operating Temperature	0 to +70	°C
Storage Temperature	-40 to +85	°C

With connectors, IL increases by 0.3 dB, RL decreases by 5 dB and ER decreases by 2 dB.

Package Dimensions

44-56-7-88-99AA(PM Fiber Type)

Ultra-mini mechanical package drawing from the KernsTech master catalog.