

In-line Isolator (ISO & NISO)



These isolators are the smallest in size but the highest in quality in the market. They are ruggedly built to function reliably in a wide variety of environments. Small size, low loss, and low back reflection combine to make these isolators ideal for integration in many fiber optic systems. We also offer the NoTail™ version to eliminate the problems that pigtailed can cause. The short optical path (~ 7cm) of the NoTail™ isolator is desirable for ultra-short pulse and interferometric applications.

Specifications:

Operating Center Wavelength		1550 nm, 1310 nm		1064 nm	
Type		Single Stage	Double Stage	Single Stage	Double Stage
Operating Bandwidth		±20 nm	±20 nm	±5 nm	±5 nm
Peak Isolation		> 40 dB	> 52 dB	40 dB (SM) 38 dB (PM)	55 dB (SM) 55 dB (PM)
Min. Isolation at 23°C		> 30 dB	> 45 dB	30 dB (SM) 35 dB (PM)	45 dB (SM) 45 dB (PM)
Insertion Loss ¹	Typ	0.4 dB	0.5 dB	1.5 dB	2.4 dB
	Max	0.6 dB	0.7 dB	2.0 dB	3.4 dB
Return Loss (Input/Output)	SM	> 60/55 dB	> 60/55 dB	> 55/50 dB	
	PM	> 55/50 dB	> 55/50 dB	> 55/50 dB	
PMD (SM)		< 0.2 ps	< 0.05 ps		
PDL (SM) at 23°C		< 0.05 dB	< 0.05 dB	0.15 dB	0.15 dB
Extinction Ratio (PM)		>20dB both axes open >25dB fast axis blocked	>20dB both axes open >25dB fast axis blocked	>20dB both axes open >23dB fast axis blocked	>20dB both axes open >23dB fast axis blocked
Optical Power Handling		300 mW		300 mW	
Operating Temperature		0 to 70 °C		-5 to 50 °C	
Storage Temperature		-40 to 85 °C		-40 to 85 °C	
Fiber Type	SM:	SMF-28		SM: HI 1060	
	PM:	PM Panda		PM: PM Panda	
Dimensions		Ø5.5 × 35 mm (pigtailed)		Ø5.5 × 35 mm (pigtailed)	
		Ø9.5 × 65 mm (NoTail™)		NA	
Notes: Values are referenced without connectors. 1. Insertion loss for NoTail™ version can be up to 0.1 dB higher, excluding connector loss.					

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Features:

- Polarization insensitive or polarization maintaining
- NoTail™ model available
- Low loss and low reflection
- Compact size
- Environmentally stable
- High quality

Applications:

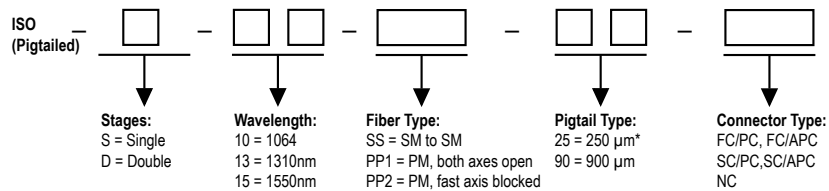
- Fiber optic amplifier
- WDM systems
- Transmitters and fiber lasers
- R&D laboratories

Dimensions:



SM or PM isolator

Ordering Information:



Note:
* Connectors not recommended with bare fiber pigtails.

