

## Polarization Maintaining Tap Isolator (PMTI Series)

Rev 11

The Polarization Maintaining Tap Isolator combines a tap coupler and polarization sensitive isolator into a single compact package. It has high extinction ratio and very low insertion loss. The component is ideal for fiber amplifier and fiber optic system where signal monitoring is required.

### Specifications

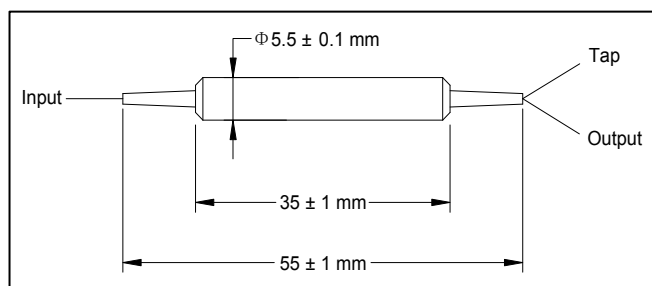
Parameter	Unit	Single Stage	Dual Stage
Center Wavelength ( $\lambda_c$ )	nm	1064	
Max. Excess Loss @ 23 °C	dB	1.8	2.8
Tap Ratio (Tap IL = $-10 \cdot \log(\text{Tap Ratio}) + \text{E.L.}$ )	%	1 ± 0.2%, 2 ± 0.4%, 4 ± 0.8%, 5 ± 1.0%, 10 ± 2.0%	
Typ. Peak Isolation	dB	40	55
Min. Isolation, $\lambda_c$ , 23 °C, all polarization states	dB	35	45
Min. Extinction Ratio	dB	20	
Min. Return Loss	dB	50	
Directivity	dB	50	
Max. Optical Power (Continuous Wave)	mW	300	
Max. Tensile Load	N	5	
Operating Temperature	°C	-5 to +50	
Storage Temperature	°C	-40 to +85	
Fiber Type		PM 980 Panda fiber or HI 1060 fiber for tap port PM Panda fiber for input & output ports	

\*Output IL =  $-10 \cdot \log(1 - \text{Tap Ratio}) + \text{E.L.}$ , E.L. will be 0.2 dB higher if tap port is HI 1060 fiber.

\*IL is 0.5 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

\*The optical path is aligned to slow axis and fast axis is blocked.

### Package Dimensions



### Ordering Information

PMTI-①-②②-③③-④-⑤-⑥-⑦-⑧

①: Stage	②②: Wavelength	③③: Coupling Ratio	④: Connector Type
1 - Single stage	06 - 1064 nm	01 - 1/99    05 - 5/95	1 - FC/UPC    4 - SC/APC
2 - Dual stage	SS - Specify	02 - 2/98    10 - 10/90	2 - FC/APC    N - None
		04 - 4/96    SS - Specify	3 - SC/UPC    S - Specify
⑤: Fiber Jacket	⑥: Fiber Type for Tap Port	⑦: Fiber Length	⑧: Working Axis
B - 250 $\mu$ m Panda fiber	H - HI 1060 fbier	Q - 0.75 m	F - Fast axis blocked
L - 900 $\mu$ m loose tube	P - PM 980 Panda fiber	S - Specify	
S - Specify	S - Specify		