



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

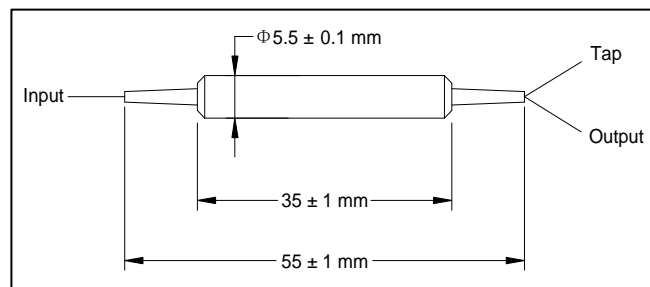
Parameter	Unit	Single Stage	Dual Stage
Center Wavelength (λ_c)	nm		1064
Max. Excess Loss @ 23 °C	dB	1.8	2.8
Tap Ratio (Tap IL = $-10 \cdot \log(\text{Tap Ratio}) + \text{E.L}$)	%	$1 \pm 0.2\%$, $2 \pm 0.4\%$, $4 \pm 0.8\%$, $5 \pm 1.0\%$, $10 \pm 2.0\%$	
Typ. Peak Isolation	dB	40	55
Min. Isolation, λ_c , 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-①-②-③③-④-⑤-⑥-⑦-⑧

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
⑤: Fiber Jacket	⑥: Fiber Type for Tap Port	⑦: Fiber Length	⑧: Working Axis
B - 250 μm Panda fiber	H - HI 1060 fbier	Q - 0.75 m	F - Fast axis blocked
L - 900 μm loose tube	P - PM 980 Panda fiber	S - Specify	
S - Specify	S - Specify		

