

Polarization Maintaining Tap Isolator (PMTI Series)

Rev 11

Description

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

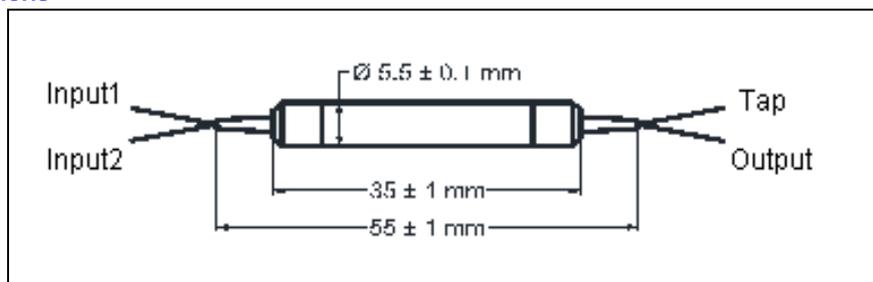
Specifications

Parameter	Unit	Single Stage	Dual Stage
Center Wavelength (λ_c)	nm	1310, 1480, 1550	
Operating Wavelength Range	nm	$\lambda_c \pm 15$	
Configuration	-	2 x 2	
Max. Excess Loss	dB	0.9	1.0
Tap Ratio	%	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, $\lambda_c \pm 10$ nm, 23 °C, all polarization states	dB	30	45
Min. Extinction Ratio	dB	20	
Min. Return Loss	dB	50	
Min. Directivity	dB	50	
Max. Optical Power (Continuous Wave)	mW	300	
Max. Tensile Load	N	5	
Operating Temperature	°C	- 5 to + 70	
Storage Temperature	°C	- 40 to + 85	
Fiber Type	-	SMF-28 or PM Panda Fiber for tap port; PM Panda Fiber for Input1, Input2 and Output	

¹IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

²The optical path is aligned to slow axis and fast axis is blocked.

Package Dimensions



Output and Tap is for Input1, it will be exchanged from Input2

Ordering Information

PMTI2-①-②②-③③-④-⑤-⑥-⑦-⑧

①: Stage	②②: Wavelength	③③: Coupling Ratio	④: Connector Type
1 - Single Stage	31 - 1310 nm 55 - 1550 nm	01 - 1/99 05 - 5/95	1 - FC/UPC 4 - SC/APC
2 - Dual Stage	48 - 1480 nm 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 μ m Bare Fiber	M - SMF-28 Fiber	Q - 0.75 m	F - Fast Axis Blocked
L - 900 μ m Loose Tube	P - Panda Fiber	S - Specify	
S - Specify	S - Specify		