



## Polarization Maintaining Tap Isolator (High Reliability)

### Key Features

- High Reliability
- Design Standard 10 FITs (Failure in One Billion Field Hours)
- Mechanical Shock 1200 g
- Radiation Resistance  $\geq 100$  krad

### Applications

- EDFAs Systems
- Space
- Vacuum Application

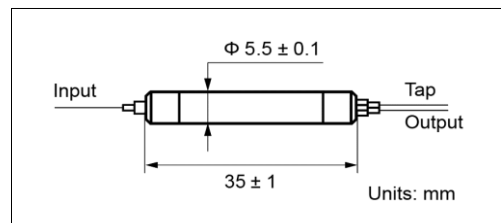
### Specifications

Parameter	Unit	Single Stage	Dual Stage
Center Wavelength ( $\lambda_c$ )	nm	1550	
Operating Wavelength Range	nm	$\lambda_c \pm 15$	
Max. Excess Loss	dB	0.7	0.8
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, $\lambda_c \pm 15$ nm, 23 °C, All Polarization States	dB	30	45
Min. Isolation, $\lambda_c \pm 15$ nm, -20~70 °C, All Polarization States	dB	20	38
Min. Extinction Ratio	dB	20	
Min. Return Loss @ 23 °C	dB	50	
Min. Directivity @ 23 °C	dB	50	
Max. Optical Power (Continuous Wave)	W	1	
Max. Peak Power for ns Pulse	kW	1	
Max. Tensile Load	N	5	
Operating Temperature	°C	- 20 to + 70	
Storage Temperature	°C	- 40 to + 85	
Fiber Type		SMF - 28 or PM Panda fiber for tap port PM Panda fiber for input & output ports	

<sup>1</sup>IL 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.

<sup>2</sup>Optical Power will be 1W only with connector added. The optical path is aligned to slow axis and fast axis is blocked.

### Package Dimensions



## Ordering Information

### PMTI-①-②②-③③-④-⑤-⑥-⑦-⑧-⑨-SPA

①: Stage

- 1 - Single Stage
- 2 - Dual Stage

②②: Wavelength

- 55 - 1550 nm
- SS - Specify

③③: Coupling Ratio

- 01 - 1/99    05 - 5/95
- 02 - 2/98    10 - 10/90
- 04 - 4/96    SS - Specify

④: Connector Type

- 1 - FC/UPC    4 - SC/APC
- 2 - FC/APC    N - None
- 3 - SC/UPC    S - Specify

⑤: Fiber Jacket

- B - 250  $\mu$ m Panda Fiber
- L - 900  $\mu$ m Loose Tube
- S - Specify

⑥: Fiber Type for Tap Port

- M - SMF-28 Fiber
- P - Panda Fiber
- S - Specify

⑦: Fiber Length

- Q - 0.75 m
- 1 - 1.0 m
- S - Specify

⑧: Working Axis

- F - Fast Axis Blocked

⑨: Power Type

- P - Pulse Application
- C - Continuous Wave