

Polarization Maintaining Filter Tap Isolator (PMFTI Series)

Description

Rev 11

The Polarization Maintaining Tap Isolator combines a tap coupler and polarization sensitive/insensitive 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.

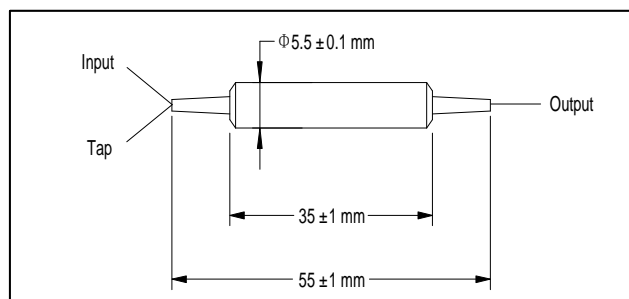
Specifications

Parameter	Unit	Single Stage	Dual Stage
Center Wavelength (λ_c)	nm	1310, 1480, 1550	
Operating Wavelength Range	nm	$\lambda_c \pm 15$	
Max. Excess Loss	dB	0.8	0.9
Tap Ratio	%	1 \pm 0.5%, 2 \pm 0.4%, 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 Input & Output ports	

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.

¹The optical path is aligned to slow axis.

Package Dimensions



Ordering Information

PMFTI-①-②②-③③-④-⑤-⑥-⑦-⑧

①: Stage

1 - Single Stage

2 - Dual Stage

②②: Wavelength

31 - 1310 nm

48 - 1480 nm

55 - 1550 nm

SS - Specify

③③: Coupling Ratio

01 - 1/99 10 - 10/90

02 - 2/98 S - Specify

05 - 5/95

④: Connector Type

1 - FC/UPC 4 - SC/APC

2 - FC/APC N - None

3 - SC/UPC S - Specify

⑤: Fiber Jacket

B - 250 μ m Panda Fiber

L - 900 μ 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

S - Specify

⑧: Working Axis (Transmission)

F - Fast Axis Blocked

B - Both Axis Working