

# Polarization Maintaining Tap Isolator



## Features

High Extinction Ratio  
High Isolation  
Low Insertion Loss  
High Return Loss  
Low Cost

## Applications

Fiber Laser  
Fiber Amplifier  
Fiber Optic Systems

## Specifications

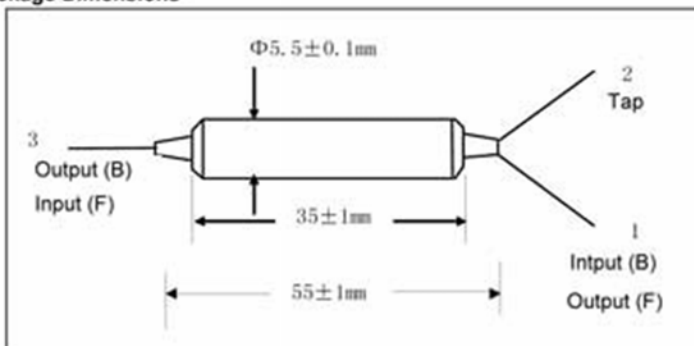
| Parameters                                   | Unit | Values                                                                                    |            |
|----------------------------------------------|------|-------------------------------------------------------------------------------------------|------------|
| Stage                                        |      | Single Stage                                                                              | Dual Stage |
| Center Wavelength                            | nm   | 1310, 1480, 1550, 1590                                                                    |            |
| Operating Wavelength Range                   | nm   | ± 20                                                                                      |            |
| Max. Excess Loss (Input to Output)           | dB   | 0.8                                                                                       | 0.9        |
| Signal Tap Ratio (Input to Tap)              | %    | 1(±0.2), 2(±0.4), 3(±0.6), 4(±0.8), 5(±1.0), 10(±2.0) or Specify                          |            |
| Typ. Signal Peak Isolation (Output to Input) | dB   | 40                                                                                        | 58         |
| Min. Signal Isolation at 23°C                | dB   | 28                                                                                        | 48         |
| Min. Extinction Ratio (only for B Type)      | dB   | 20                                                                                        | 20         |
| Min. Extinction Ratio (only for F Type)      | dB   | 23                                                                                        | 23         |
| Min. Return Loss (for all ports)             | dB   | 50                                                                                        | 50         |
| Max. Optical Power (CW)                      | mW   | 500                                                                                       |            |
| Max. Tensile Load                            | N    | 5                                                                                         |            |
| Fiber Type                                   |      | PM 1550 Panda Fiber for Input and Output Ports, SMF-28e Fiber or Panda Fiber for Tap Port |            |
| Operating Temperature                        | °C   | 0 to +70                                                                                  |            |
| Storage Temperature                          | °C   | -40 to +85                                                                                |            |

\*Above specifications are for device without connector.

\*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER will be 2dB lower.

\*The PM fiber and the connector key are aligned to the slow axis.

## Package Dimensions



## Ordering Information

**PMTAPI** ①①-②-③③-④-⑤⑤⑤-⑥⑥⑥-⑦-⑧

①①: Wavelength

31 - 1310nm

48 - 1480nm

55 - 1550nm

59 - 1590nm

SS - Specify

②: Stage

S - Single Stage

D - Dual Stage

③③: Tap Ratio

01 - 1%

02 - 2%

03 - 3%

04 - 4%

05 - 5%

10 - 10%

SS - Specify

④: Axis Alignment

F - Fast Axis Blocked

B - Both Axis Working

⑤⑤⑤: Connector Type on Port 1, 2 & 3

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

⑥⑥⑥: Fiber Jacket on Port 1, 2 & 3

B - 250um Bare Fiber

L - 900um Loose Tube

S - Specify

⑦: Fiber Type on Tap

1 - SMF 28e Fiber

2 - PM Panda Fiber

S - Specify

⑧: Fiber Length

0.8 - 0.8 m

S - Specify