

# Polarization Maintaining Tap Isolator WDM Hybrid (PMTIW)

## Description

The Polarization Maintaining Tap Isolator WDM Hybrid is designed, which integrates functions of tap coupler, WDM and isolator. This device is characterized with low IL, high return loss, high extinction ratio and excellent environmental stability and reliability. They are ideal for polarization maintaining fiber amplifiers, fiber lasers, high speed communication system and instrumentation applications.

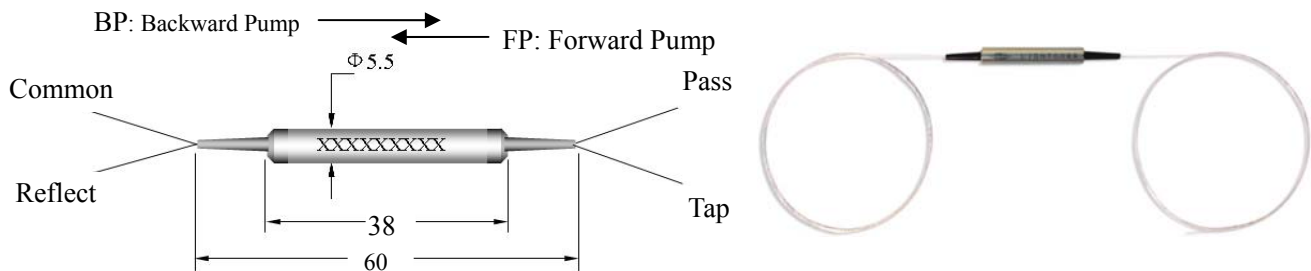
## Key Features

- High isolation
- Low insertion loss
- Excellent stability and reliability
- High power handling

## Applications

- Fiber lasers
- Fiber amplifier
- Fiber Sensors
- Communications

## Mechanical Dimension



## Specifications

Parameter	Type	Unit	PM Tap Isolator WDM Hybrid	
			Single stage	Dual stage
Signal wavelength range		nm	1530~1565	
Signal tap ratio		%	1±0.2%, 2±0.4%, 4±0.8%, 5±1.0%, 10±2.0%	
Excess loss (only for signal port)		dB	≤1.2	≤1.3
Extinction ratio (only for signal port)		dB	≥20(Type B)	≥23(Type F)
Min. signal isolation. @23°C		dB	≥30	≥46
Reflection band wavelength range		nm	960~990 (or 1460~1490)	
IL over reflection band (Reflect→Common)		dB	≤0.6	
Return loss		dB	≥50	
Directivity		dB	≥50	
Handling power		mW	≤300	
Fiber type		/	PM fiber for common & pass port; PM fiber or SM fiber for Tap and reflect port.	
Operating temperature		°C	-5 to 70	
Storage temperature		°C	-40 to 85	
Dimensions		mm	Φ5.5× L38	

\*Type B: Both axis working, Type F: for Fast axis blocked.

\* IL is 0.3dB (1310~1550nm) or 0.5dB (980nm) higher, RL is 5dB lower and ER is 2dB lower for each connector added. The default connector key is aligned to slow axis.

### Ordering Information

PMTIW-XXX-TXXXX/RXXXX-XX-X-XX-X-X-X-XX/XXX-XX\*XX

