

Polarization Maintaining Isolator (PMISO)

Description

The Polarization Maintaining Isolator is a micro-optic device built with an input and an output PM fiber. It is characterized with low insertion loss, high extinction ratio, high isolation, high return loss and excellent environmental stability and reliability. It is widely used in EDFA, Raman amplifier, fiber lasers, optical fiber sensors and instrumentation.

Key Features

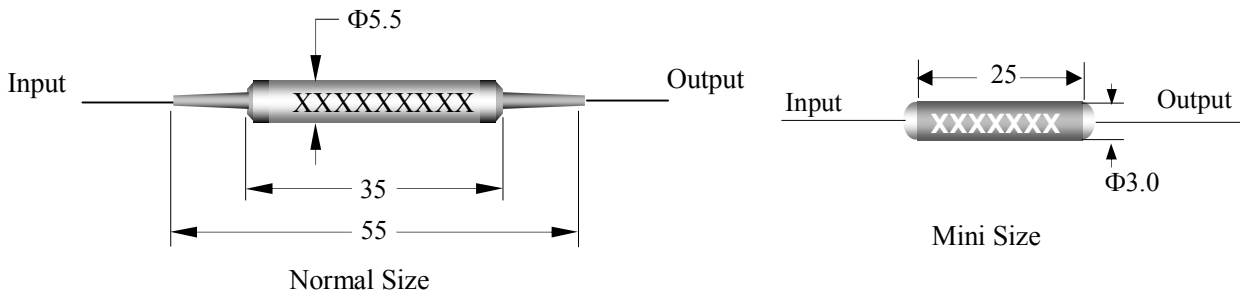
- Low insertion loss
- High extinction ratio
- High isolation
- Excellent stability and reliability

Applications

- Fiber amplifier
- Fiber lasers
- Fiber Sensors
- Instrumentation



Mechanical Dimension



Specifications

Parameter \ Type	Unit	PM Isolator			
		Single stage	Dual stage	Single stage	Dual stage
Center wavelength	nm	1064		1310,1440,1550	
Operating bandwidth	nm	±5		±15	
Insertion loss @23°C	dB	≤2.0	≤3.0	≤0.6	≤0.7
Extinction ratio	dB	≥20(Type B) ≥23(Type F)		≥20(Type B) ≥25(Type F)	
Isolation @23°C	dB	≥30	≥45	≥30	≥46
Return loss (Input/Output)	dB	≥55/50		≥55/50	
Handling power	mW	≤300		≤500	
Fiber type	/	PM Panda Fiber			
Operating temperature	°C	-5~+50		-5~+70	
Storage temperature	°C	-40~+85			
Dimensions	mm	Φ5.5×L35		Φ5.5×L35 or Φ3.0×L25	

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

* IL is 0.3dB (1310~1550nm) or 0.5dB (1064nm) 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

PMISO-X-X-XXXX-X-X-XX/XXX-XX*XX

