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.

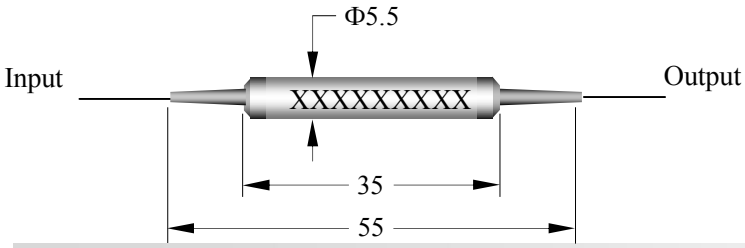
Key Features

- 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)
Center wavelength	nm	2000
Operating bandwidth	nm	±50
Insertion loss	dB	≤1.0
Extinction ratio	dB	≥18(Type B), ≥20(Type F)
Isolation @23℃	dB	≥20
Return loss (Input/Output)	dB	≥50/50
Handling power	mW	≤300
Fiber type	/	SM15-PS-U25D (Fiber code: 623)
Operating temperature	℃	-5~+70
Storage temperature	℃	-40~+85
Dimensions	mm	Φ5.5×L35

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

* IL is 0.3dB 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

- Package Size: 5.5×35 etc.
- Input/Output Connector: FC/UPC, FC/APC etc.
- Fiber Code: 623=SM15-PS-U25D
- Pigtail Type: 0=250μm, 1=900μm, 4=others
- Operating Wavelength: 2000=2000nm etc.
- Working axis type: B= Both axis working, F=Fast axis blocked
- Stage: S= Single stage