

850nm PM Fiber Optic Isolator

850nm PM Fiber Optic Isolator is a fiber passive component built with TGG crystal, it allows light signal to be delivered in one forward direction and avoid the back reflection light, it's widely used in Quantum Communication system, Fiber Laser system to protect the light source and lower down the system optical signal noise. The high power type is available upon request.

Application:

Quantum Communication
Fiber Laser
Coherent Detecting
Lab & Research

Features:

High Isolation
High Extinction Ratio
Low Insertion Loss
High Reliability



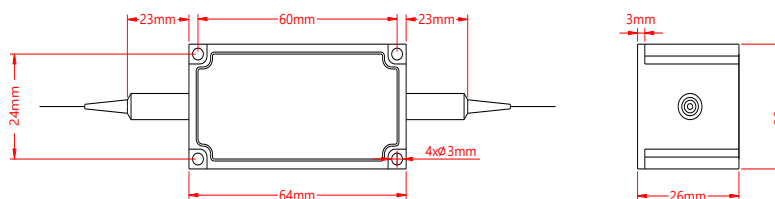
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	850	nm
Bandwidth	BW	± 5	nm
Typ. Insertion Loss	IL	0.8	dB
Max. Insertion Loss	IL	1.0	dB
Typ. Peak Isolation	Iso	32	dB
Min. Isolation	Iso	25	dB
Min. Extinction Ratio	ER	20	dB
Min. Return Loss	RL	45	dB
Max. Optical Power (CW)	P	500 or customized	mW
Max. Tensile Load		5	N
Fiber Type		PM Panda fiber	-
Operating Temperature	T	+10~50	°C
Storage Temperature	T	0~60	°C
Package Dimension		64x28x26	mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23 °C.

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

Drawing:



Ordering Information (Part Number):

PMISO- WWW - A - J - LL - CC				
WWW	A	J	LL	CC
Wavelength	Working Axis	Fiber Jacket	Fiber Length	Connector
800 - 800nm	F - Fast Axis Blocked Slow Axis Working	B - 250um Bare Fiber	05 - 0.5m	NE - None
808 - 808nm		9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
810 - 810nm	B - Both Axes Working	2 - 2mm Loose Tube	15 - 1.5m	FU - FC/UPC
820 - 820nm		3 - 3mm Loose Tube	20 - 2.0m	SA - SC/APC
830 - 830nm			SS - Specify	SU - SU/APC
850 - 850nm				LA - LC/APC
895 - 895nm				LU - LC/UPC
SSS - Specify				SS - Specify