

509nm PM Fiber Optic Isolator

509nm 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



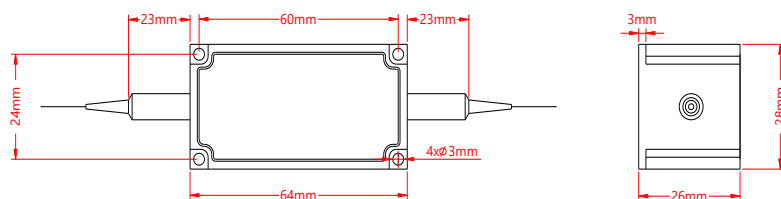
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	509	nm
Bandwidth	BW	± 5	nm
Typ. Insertion Loss	IL	1.2	dB
Max. Insertion Loss	IL	1.5	dB
Typ. Peak Isolation	Iso	25	dB
Min. Isolation	Iso	22	dB
Min. Extinction Ratio	ER	18	dB
Min. Return Loss	RL	45	dB
Max. Optical Power (CW)	P	500 or customized	mW
Max. Tensile Load		5	N
Fiber Type		Nufern PM460-HP fiber	-
Operating Temperature	T	+10~50	°C
Storage Temperature	T	0~60	°C
Package Dimension			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
509 - 509nm	F - Fast Axis Blocked Slow Axis Working	B - 250um Bare Fiber	05 - 0.5m	NE - None
510 - 510nm		9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
520 - 520nm	B - Both Axes Working	2 - 2mm Loose Tube	15 - 1.5m	FU - FC/UPC
532 - 532nm		3 - 3mm Loose Tube	20 - 2.0m	SA - SC/APC
SSS - Specify			SS - Specify	SU - SU/APC
				LA - LC/APC
				LU - LC/UPC
				SS - Specify