

509nm Polarization Insensitive Optical Isolator

509nm Polarization Insensitive Optical 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 optic sensor 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 Optic Sensor
Fiber Laser
Lab & Research

Features:

High Isolation
Low PDL
Low Insertion Loss
High Reliability



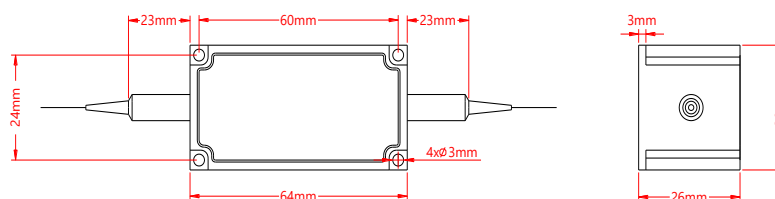
Specification:

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	23	dB
Min. Isolation	Iso	20	dB
Max. Polarization Dependent Loss	PDL	0.2	dB
Min. Return Loss	RL	45	dB
Max. Optical Power (CW)	P	500 or customized	mW
Max. Tensile Load		5	N
Fiber Type		Nufern 460-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, RL will be 5dB lower.

Drawing:



Ordering Information (Part Number):

PIISO- WWW - HH - J - LL - CC				
WWW	HH	J	LL	CC
Wavelength	Handling Power	Fiber Jacket	Fiber Length	Connector
509 - 509nm	Z5 - 0.5W	B - 250um Bare Fiber	05 - 0.5m	NE - None
510 - 510nm	SS - Specify	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
520 - 520nm			15 - 1.5m	FU - FC/UPC
532 - 532nm			20 - 2.0m	SA - SC/APC
SSS - Specify			SS - Specify	SU - SU/APC
				LA - LC/APC
				LU - LC/UPC
				SS - Specify