

509nm High Power PM Fiber Optic Isolator

509nm High Power 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, Fiber Laser system to protect the light source and lower down the optical signal noise. If need pulse type please contact us to confirm.

Application:

Quantum Communication
Fiber Laser
Coherent Detecting
Lab & Research

Features:

High Power
High Isolation
Low Insertion Loss
High Reliability



Specification:

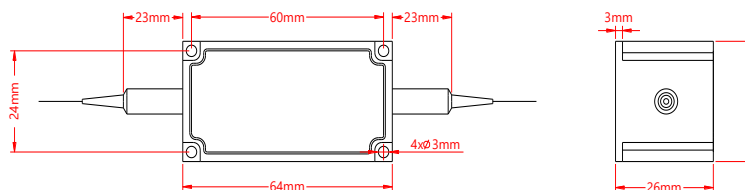
Parameter	Symbol	Value	Unit
Center Wavelength	λ	509	nm
Bandwidth	BW	± 5	nm
Typ. Insertion Loss	IL	1.2	dB
Max. Insertion Loss	IL	1.5	dB
Typ. Peak Isolation	Iso	25	dB
Min. Isolation	Iso	22	dB
Min. Extinction Ratio	ER	18	dB
Min. Return Loss	RL	45	dB
Max. Optical Power (CW)	P	1, 2 or customized	W
Max. Peak Power	P	5 or customized	KW
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, RL will be 5dB lower. ER will be 2dB lower.

Slow axis is default aligned to the connector key. Connectors only 1W CW optical power guarantee.

Drawing:



Ordering Information (Part Number):

HPMISO-**WWW**-**A**-**HH**-**J**-**LL**-**CC**

WWW	A	HH	J	LL	CC
Wavelength	Working Axis	Handling Power	Fiber Jacket	Fiber Length	Connector
509 - 509nm	F - Fast axis Blocked	01 - 1W	B - 250um Bare Fiber	05 - 0.5m	NE - None
510 - 510nm	Slow Axis working	02 - 2W	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
520 - 520nm	B - Both Axes Working	SS - Specify	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