

High Power 830nm PM Optical Isolator

High Power 830nm Polarization Maintaining 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 amplifier system, fiber optic sensor system to protect the light source and lower down the optical signal noise. The higher optical power is available upon request, if need pulse type please contact us to confirm.

Application:

Fiber Optic Amplifier
Fiber Optic Sensor
Fiber Laser
Lab & Research

Features:

High Power
High Isolation
Low Insertion Loss
High Reliability



Specification:

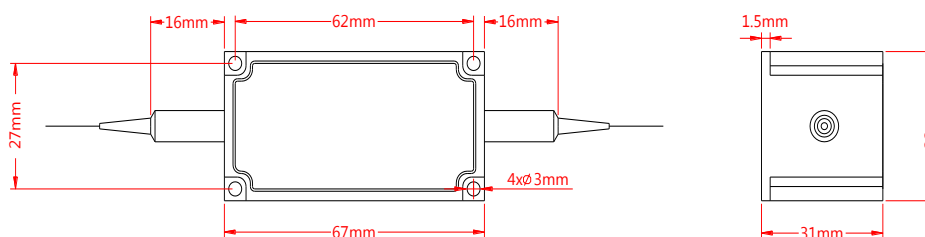
Parameter	Symbol	Value	Unit
Center Wavelength	λ	830	nm
Bandwidth	BW	± 5	nm
Typ. Insertion Loss	IL	0.8	dB
Max. Insertion Loss	IL	1.0	dB
Typ. Peak Isolation	Iso	32	dB
Min. Isolation	Iso	25	dB
Min. Extinction Ratio for Fast Axis Blocked	ER	22	dB
Min. Extinction Ratio for Both Axes Working	ER	20	dB
Min. Return Loss	RL	45	dB
Max. Optical Power (CW)	P	1, 3, 5, 10, 20 or specify	W
Max. Peak Power	P	5, 10, 20 or specify	KW
Max. Tensile Load		5	N
Fiber Type		PM Panda 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
800 - 800nm	F - Fast axis Blocked Slow Axis working	01 - 1W	B - 250um Bare Fiber 9 - 900um Loose Tube	05 - 0.5m	NE - None
808 - 808nm		03 - 3W		10 - 1.0m	FA - FC/APC
810 - 810nm	B - Both Axes Working	05 - 5W		15 - 1.5m	FU - FC/UPC
820 - 820nm		10 - 10W		20 - 2.0m	SA - SC/APC
830 - 830nm		20 - 20W		SS - Specify	SU - SU/APC
850 - 850nm		SS - Specify		LA - LC/APC	
880 - 880nm		LU - LC/UPC			
					SS - Specify