

830±50nm High Power Broadband PM Optical Isolator

830±50nm High Power Broadband PM 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 OCT system, fiber optic sensor system to protect the light source and lower down the system optical signal noise. The higher power type is available upon request.

Application:

OCT
Fiber Optic Sensor
Testing System
Lab & Research

Features:

Wide Band
High Isolation
Low Insertion Loss
High Reliability



Specification:

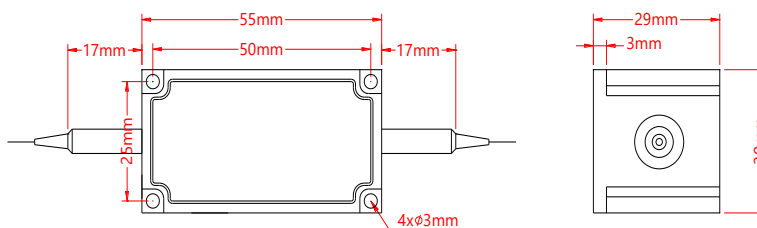
Parameter	Symbol	Value	Unit
Center Wavelength	λ	830	nm
Bandwidth	BW	±50	nm
Typ. Insertion Loss @ ±50nm	IL	0.9	dB
Max. Insertion Loss @ ±50nm	IL	1.2	dB
Typ. Peak Isolation @ ±50nm	Iso	35	dB
Min. Isolation @ ±50nm	Iso	25	dB
Min. Extinction Ratio	ER	18	dB
Min. Return Loss	RL	50	dB
Max. Optical Power (CW)	P	0.5, 1, 3, 5, 10, 20 or customized	W
Max. Peak Power	P	10, 20 or customized	KW
Max. Tensile Load		5	N
Fiber Type		PM780-HP Panda fiber	-
Operating Temperature	T	10~50	°C
Storage Temperature	T	0~60	°C
Package Dimension		55x30x29	mm

Notice: Above specifications are tested 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):

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

WWW	HH	A	J	LL	CC
Wavelength	Handling Power	Working Axis	Fiber Jacket	Fiber Length	Connector
830 - 830nm	Z5 - 0.5W	F - Fast Axis Blocked	B - 250um Bare Fiber	05 - 0.5m	NE - None
840 - 840nm	01 - 1W	Slow Axis Working	9 - 900um Loose Tube	08 - 0.8m	FA - FC/APC
850 - 850nm	03 - 3W	B - Both Axes Working		10 - 1.0m	FU - FC/UPC
SSS - Specify	05 - 5W			15 - 1.5m	SS - Specify
	10 - 10W			20 - 2.0m	
	20 - 20W			SS - Specify	
	SS - Specify				