

810nm High Power Polarization Insensitive Optical Isolator

810nm High Power 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 amplifier system, fiber optic sensor system to protect the light source and lower down the system optical signal noise. If need pulse type please contact us to confirm.

Application:

Fiber Amplifier
Fiber Optic Sensor
Fiber Laser
Lab & Research

Features:

High Isolation
High Power
Low Insertion Loss
High Reliability



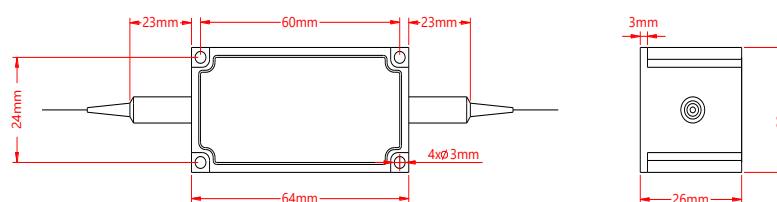
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	810	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
Max. Polarization Dependent Loss	PDL	0.15	dB
Min. Return Loss	RL	45	dB
Max. Optical Power (CW)	P	1, 3, 5, 10, 20 or customized	W
Max. Peak Power	P	5, 10, 20 or customized	kW
Max. Tensile Load		5	N
Fiber Type		HI 780 fiber	-
Operating Temperature	T	+10~50	°C
Storage Temperature	T	0~60	°C
Package Dimension		64x28x26	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. Connectors only 1W CW guarantee.

Drawing:



Ordering Information (Part Number):

HPIISO-WWW-HH-J-LL-CC

WWW	HH	J	LL	CC
Wavelength	Handling Power	Fiber Jacket	Fiber Length	Connector
800 - 800nm	01 - 1W	B - 250um Bare Fiber	05 - 0.5m	NE - None
808 - 808nm	03 - 3W	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
810 - 810nm	05 - 5W	2 - 2mm Loose Tube	15 - 1.5m	FU - FC/UPC
820 - 820nm	10 - 10W	3 - 3mm Loose Tube	20 - 2.0m	SA - SC/APC
830 - 830nm	20 - 20W		SS - Specify	SU - SU/APC
850 - 850nm	SS - Specify			LA - LC/APC
895 - 895nm				LU - LC/UPC
SSS - Specify				SS - Specify