

458nm High Power Polarization Insensitive Optical Isolator

458nm 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 Quantum Communication, 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:

Quantum Communication
Fiber Optic Sensor
Fiber Laser
Lab & Research

Features:

High Isolation
High Power
Low Insertion Loss
High Reliability



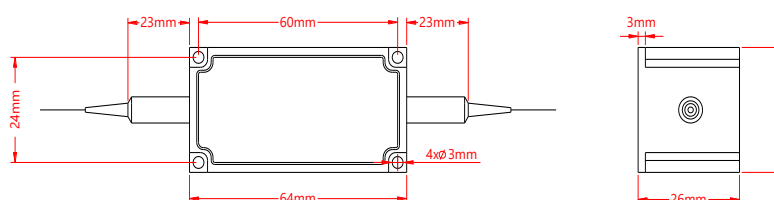
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	458	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
Max. Polarization Dependent Loss	PDL	0.2	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 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. 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
458 - 458nm	01 - 1W	B - 250um Bare Fiber	05 - 0.5m	NE - None
461 - 461nm	02 - 2W	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
470 - 470nm	SS - Specify	2 - 2mm Loose Tube	15 - 1.5m	FU - FC/UPC
480 - 480nm		3 - 3mm Loose Tube	20 - 2.0m	SA - SC/APC
488 - 488nm			SS - Specify	SU - SU/APC
SSS - Specify				LA - LC/APC
				LU - LC/UPC
				SS - Specify