High Power Polarization Insensitive Isolator (HI Series)

Rev 11C

Description

The 1064 nm High Power Polarization Insensitive Isolator is characterized with low insertion loss, high isolation, high power handling, high return loss, excellent environmental stability and reliability. The High Power Polarization Insensitive Isolator is ideal for fiber lasers and instrumentation applications.

Key Features

- Low Insertion Loss
- High Isolation
- High Return Loss

Applications

- Fiber Lasers
- Fiber Optic Instruments

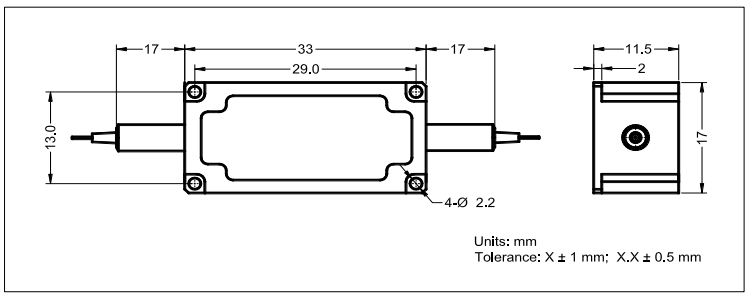
Specifications

Parameter	Unit	Value
Center Wavelength (λc)	nm	1064
Typ. Peak Isolation	dB	35
Min. Isolation, λc, @ All Polarization States, 23 ℃	dB	28
Typ. Insertion Loss, 23 ℃	dB	1.7
Max. Insertion Loss and Input Power @ 300 mW, 23 ℃	dB	2.0
Max. Insertion Loss and Input Power @ 1 W, 23 ℃	dB	2.5
Max. Insertion Loss and Input Power @ 2 W, 23 ℃	dB	3.0
Min. Return Loss (Input/Output)	dB	50/50
Max. Polarization Dependent Loss	dB	0.2
Max. Average Optical Power	W	2
Max. Peak Power (Pulse Width, 10 ns)	kW	10
Max. Tensile Load	N	5
Fiber Type	-	HI1060
Operating Temperature	℃	+ 10 to + 50
Storage Temperature	℃	0 to + 60

[1]IL is 0.5 dB higher, and RL is 5 dB lower for each connector added.

[2]The optical power handling capability will be max 1 W when the isolator is terminated with connectors.

Package Dimensions



Ordering Information

HI-①①-②②-③-④-⑤-⑥-⑦

①①: Wavelength
06 - 1064 nm
SS - Specify

②②: Handling Power
01 - 1 W
02 - 2 W

③: Connector Type
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
N - None
S - Specify

④: Fiber Jacket
B - 250 μm Bare Fiber
L - 900 μm Loose Tube
S - Specify

⑤: Fiber Length
1 - 1.0 m
S - Specify

⑥: Fiber Type
1 - HI1060 Fiber
S - Specify

⑦: Power Type
P - Pulsed
C - Continuous Wave