



High Power Polarization Insensitive Isolator (HI Series)

Rev 11E

Description

The 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 fiber isolator is ideal for fiber lasers and instrumentation applications.

Key Features

- Low Insertion Loss
- High Isolation

Applications

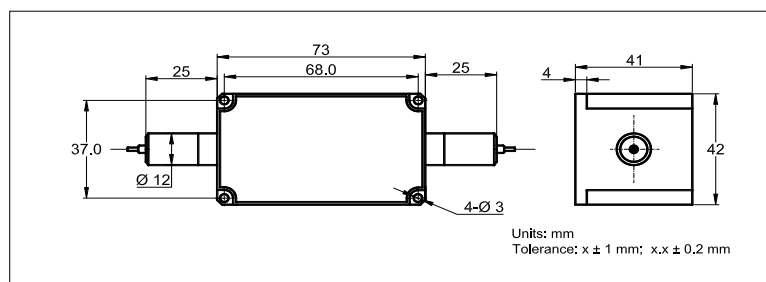
- Fiber Lasers
- Fiber Optic Instruments

Specifications

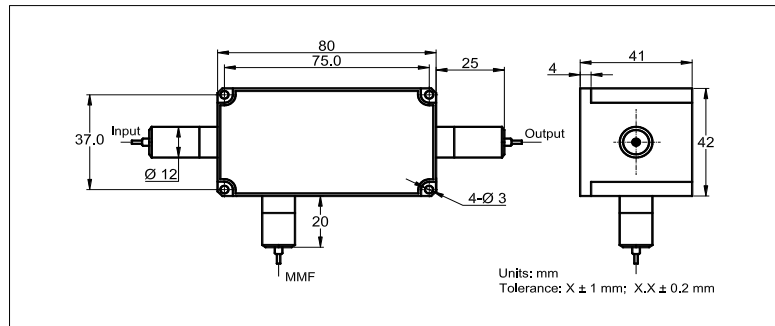
Parameter	Unit	Type A	Type B
Type	-	Type A	Type B
Center Wavelength (λ_c)	nm	1030	
Operating Wavelength Range	nm	$\lambda_c \pm 10$	
Typ. Peak Isolation	dB	30	
Min. Isolation, λ_c , @ All Polarization States, 23 °C	dB	25	
Typ. Insertion Loss, 23 °C	dB	0.8	
Max. Insertion Loss, 23 °C	dB	1	
Max. IL Output to Reflection (MMF), (Output to MMF)	dB	None	1
Min. Return Loss (Input/Output)	dB	50/50	
Max. Polarization Dependent Loss	dB	0.2	
Max. Average Optical Power	W	10	20
Max. Peak Power (Pulse Width, 10 ns)	kW	10	
Max. Tensile Load	N	5	
Fiber Type	-	HI1060	
MMF Fiber Type	-	None	MMF-105/125
Operating Temperature	°C	+ 10 to + 50	
Storage Temperature	°C	0 to + 60	

Note: MMF Port is to take out useless light.

Package Dimensions



Type A



Type B

Ordering Information

HI-①①-②-③③-④-⑤-⑥-⑦-⑧

①①: Wavelength

03 - 1030 nm

SS - Specify

②: Package Type

A - Type A

B - Type B

③③: Handling Power

03 - 3 W

10 - 10 W

20 - 20 W

SS - Specify

④: Connector Type

N - None

⑤: Fiber Jacket

B - 250 μm Bare Fiber

L - 900 μm Loose Tube

S - Specify

⑥: Fiber Length

1 - 1.0 m

S - Specify

⑦: Fiber Type

1- HI1060 Fiber

2 - Nufern FUD-3584 Fiber

3 - Nufern LMA-GDF-20/130-M

S - Specify

⑧: Power Type

P - Pulsed

C - Continuous Wave