Advanced Fiber Resources (HK), Ltd.

High Power Polarization Insensitive Isolator (HI Series)

Rev 11E

Description

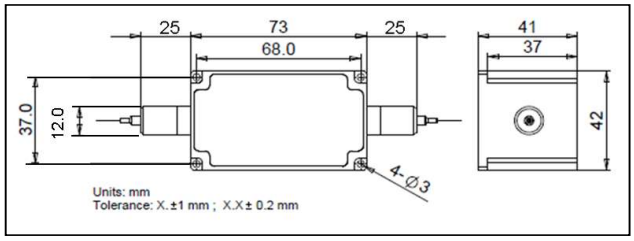
The 1030 nm High Power Polarization Insensitive Isolator is characterized with low insertion loss, high isolation, high power handling, high return loss, excellent environmental stability and reliability. It is ideal for fiber laser and instrumentation applications.

Specifications

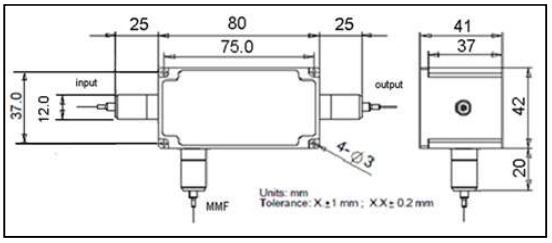
Parameter	Unit	Type A	Type B
Center Wavelength (λc)	nm	1030	
Operating Wavelength Range	nm	λc ± 10	
Typ. Peak Isolation	dB	30	
Min. Isolation, λc, 23 ℃, All Polarization States	dB	25	
Typ. Insertion Loss, 23 ℃	dB	0.8	
Max. Insertion Loss, 23 ℃	dB	1	
Max. IL Output To Reflection (MMF), (Output to MMF)	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 For ns Pulse	kW	10	
Max. Tensile Load	N	5	
Fiber Type	-	HI 1060 Fiber	
MMFFiber Type	-	None	MMF-105/125
Operating Temperature	℃	+ 10 to + 50	
Storage Temperature	℃	0 to + 60	

[1]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 - HI 1060 Fiber
2 - Nufern FUD-3584 Fiber
3 - Nufern LMA-GDF-20/130-M
S - Specify

⑧: Power Type
P - Pulse Application
C - Continuous Wave