



High Power Polarization Insensitive Isolator (HI Series)

Rev 11B

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 optical isolator is ideal for fiber laser and instrumentation applications.

Key Features

- High Power Handling
- Low Insertion Loss

Applications

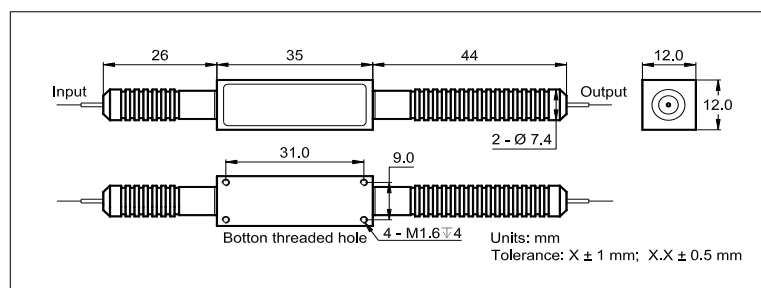
- Fiber Lasers
- Fiber Optic Instruments

Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1550
Max. Polarization Dependent Loss	dB	0.15
Typ. Peak Isolation	dB	35
Min. Isolation, λ_c , All Polarization States, 23 °C	dB	28
Typ. Insertion Loss	dB	0.35
Max. Insertion Loss, $\lambda_c \pm 20$ nm, 23 °C	dB	0.5
Min. Return Loss (Input/Output)	dB	50/50
Max. Optical Power	W	20
Max. Peak Power (Pulse Width, 10 ns)	kW	10
Max. Tensile Load	N	5
Fiber Type	-	SMF-28 Fiber
Operating Temperature	°C	+ 10 to + 50
Storage Temperature	°C	0 to + 60

¹IL is 0.3 dB higher, RL is 5 dB lower and Optical Power is 1 W for each connector added.

Package Dimensions



Ordering Information

HI-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦⑦

①①: Wavelength

55 - 1550 nm

SS - Specify

②②: Handling Power

20 - 20 W

③③: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

④④: Fiber Type

B - 250 μ m Bare Fiber

L - 900 μ m Loose Tube

S - Specify

⑤: Fiber Length

1 - 1.0 m

S - Specify

⑥: Power Type

P - Pulse Application

C - Continuous Wave

⑦: Fiber Type

1 - SMF-28 Fiber

S - Specify