

850nm Broadband Polarization Insensitive Isolator

Features

Low Insertion Loss
High Isolation
High Power Handling
High Return Loss

Applications

Fiber Laser
Instrumentation
Fiber Amplifier
Lab Research

Specifications

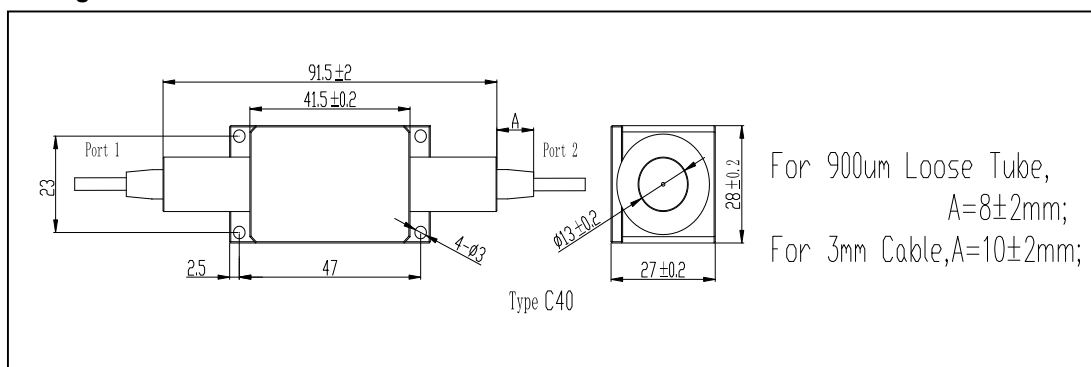
Parameters	Unit	Values
Center Wavelength (λ_c)	nm	850
Operating Wavelength Range	nm	± 50
Max. PDL at 23°C, λ_c	dB	0.15
Typ. Isolation	dB	28~32
Min. Isolation at 23°C	dB	23
Typ. Insertion Loss at 23°C, λ_c	dB	1.0
Max. Insertion Loss at 23°C	dB	1.3 @ 850 $\pm$ 30nm, 1.7 @ 850 $\pm$ 40nm, 2.0 @ 850 $\pm$ 50nm
Min. Return Loss (Input/Output)	dB	50/50
Max. Optical Average Power	W	0.3 , 0.5 or Specify
Max. Tensile Load	N	5
Operating Temperature	°C	0 to +60
Storage Temperature	°C	-20 to +75

*Above specifications are for device without connector.

*For devices with connectors, IL will be 1dB higher, RL will be 5dB lower, handling power will be only 1W(CW).

*The material must be RoSH compliant.

Package Dimensions



Ordering Information

BI-①①-②-③-④④-⑤⑤-⑥⑥-⑦⑦

①①: Wavelength

85 - 850nm

SS - Specify

②: Package Type

C40 - Type C40

③: Handling Power

0.3 - 300mW

0.5 - 500mW

④④: Connector Type on Port 1 & 2

1A - FC/UPC

2A - FC/APC(Step)

3A - SC/UPC

4A - SC/APC(Step)

5A - FC/APC(Cone)

6A - SC/APC(Cone)

N - None

S - Specify

⑤⑤: Fiber Jacket on Port 1 & 2

B - Baer Fiber

F - 900um Loose Tube(White)

S - Specify

⑥⑥: Fiber Length

1 - 1.0m

S - Specify

⑦⑦: Fiber Type

112- Nufern HI780-HP fiber

1064nm High Power Broadband Isolator

Features

Low Insertion Loss, High Isolation
High Power Handling, High Return Loss

Applications

Fiber Laser, Instrumentation
Fiber Amplifier, Lab Research

Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1064
Operating Wavelength Range	nm	± 50
Typ. Peak Isolation	dB	30~35
Min. Isolation at 23°C	dB	26
Typ. Insertion Loss	dB	0.6
Max. Insertion Loss at 23°C, λ_c	dB	0.8
Max. Insertion Loss at 23°C, ± 50	dB	1.5
Min. Return Loss (Port1/Port2)	dB	50/50
Max. Polarization Dependent Loss	dB	0.15 (only for BI Isolators)
Min. ER (only for HPMBI Isolators)	dB	20 for B type, 22 for F type
Max. Average Power @ Proper SOP	W	1, 5 or Specify
Max. Peak Power for ns Pulse	kW	5 or Specify
Fiber Type (only for BI Isolators)	-	HI 1060 Fiber or LMA Fiber
Fiber Type (only for HPMBI Isolators)	-	PM 980 Fiber or PLMA Fiber
Max. Tensile Load	N	5
Operating Temperature	°C	-5 to +50
Storage Temperature	°C	-20 to +75

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.5dB higher, RL will be 5dB lower and ER will be 2dB lower, and only for 1W CW.

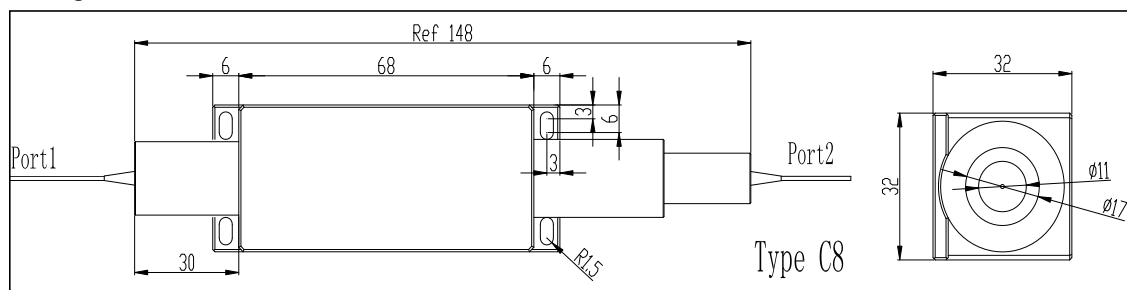
*The PM fiber and connector key are aligned to the slow axis.

*For pulse applications, pls discuss with Optizone Technology.

*No plastic cap on the ends of the component if 3mm jacketed is chosen;

*Package size indicated is for standard choose, if special size is required, please discuss with Optizone.

Package Dimensions



Ordering Information

BI-①①-②②-③③-⑤⑤-⑥⑥-⑦-⑧/⑧

HPMBI-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦-⑧/⑧

①①: Wavelength

06 - 1064nm

S - Specify

②②: Package Type

C8 - Type C8

③③: Handling Power

01 - 1W

05 - 5W

S - Specify

④: Axis Alianment

F - Fast Axis Blocked

B - Both Axis Working

⑤⑤: Connector Type on Port 1 & 2

1A - FC/UPC

2A - FC/APC(Step)

3A - SC/UPC

4A - SC/APC(Step)

5A - FC/APC(Cone)

N - None

S - Specify

⑥⑥: Fiber Jacket on Port 1 & 2

B - Baer Fiber

C - 900um Loose Tube(Red)

F - 900um Loose Tube(White)

R - 3mm Cable(Blue)

T - 3mm Cable(Yellow)

S - Specify

⑦: Fiber Length

0.8 - 0.8m

S - Specify

⑧/⑧: Fiber Type

1 - HI 1060 Fiber

2 - 10/125 N.A 0.08 Fiber

35 - SCF-UN-10/125 NA0.08 Fibe

72- LMA-GDF 10/125-M NA0.075

S - Specify

or PM Fiber Type

1 - PM 980 Panda Fiber

2 - PMDC 10/125 N.A 0.08 Fiber

11 - PMSC 10/125 N.A0.08 Fiber

S - Specify

Remarks: