



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	1.0
Max. Insertion Loss at 23°C, λ_c	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. Optical Power (CW)	W	1, 5 or Specify
Max. Peak Power	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 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower, and only for 1W CW.

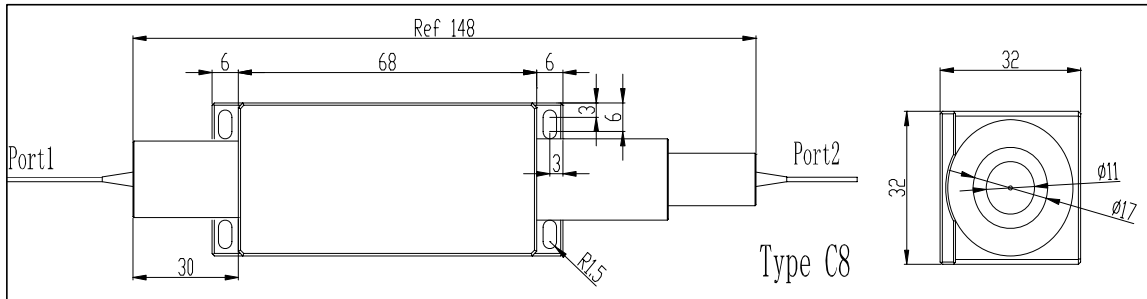
*The PM fiber and connector key are aligned to the slow axis.

*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

HPMBI-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦

①①: Wavelength

06 - 1064nm

S - Specify

④: Axis Alignment

F - Fast Axis Blocked

B - Both Axis Working

⑦: Fiber Length

0.8 - 0.8m

S - Specify

②②: Package Type

C8 - Type C8

⑤⑤: Connector Type on Port 1 & 2

N - None

S - Specify

③③: Handling Power

01 - 1W

05 - 5W

S - Specify

⑥⑥: Fiber Jacket on Port 1 & 2

L - 900um Loose Tube

C - 3mm Loose Cable

S - Specify

Remarks:

1) HPMBI, High Power Polarization Maintaining Broadband Isolators;

2) BI, High Power Polarization Broadband Insensitive Isolators;

3) Item④ is for HPMBI only.

Features

- Low Insertion Loss
- High Power Handling
- High Isolation
- Low PDL
- Low Cost

Applications

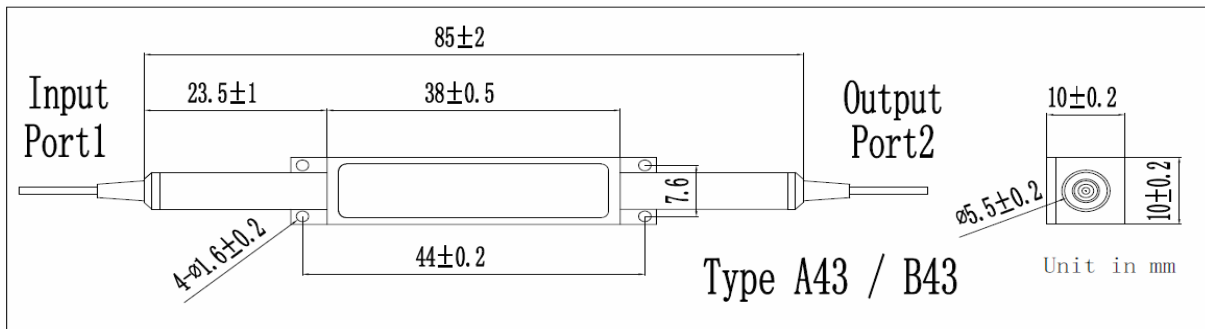
- Optical Fiber Amplifier
- Fiber Optic Sensor
- Instrumentation

Isolator Type		A43	B43
Center Wavelength	nm	1064	
Typ. Peak Isolation	dB	35	
Min. Isolation at 23 °C	dB	28	
Typ. Insertion Loss at 1064nm , 23 °C	dB	1.4	1.4
Max. Insertion Loss at 1064nm , 23 °C	dB	1.7	1.7
Max. Insertion Loss at 1064nm @ 1.0W , 23 °C	dB	2.0	1.8
Max. Insertion Loss at 1064nm @ 1.5W , 23 °C	dB	2.5	2.0
Max. Insertion Loss at 1064nm @ 2.0W , 23 °C	dB	-	2.5
Min. Return Loss (Input/Output)	dB	50/50	
Max. Polarization Dependent Loss, 23°C	dB	0.15	
Max. Optical Power (CW)	W	1.0 or specify	2.0 or specify
Max. Peak Power	kW	10@1ns	
Max. Tensile Load	N	5	
Fiber Type		HI 1060 Fiber or LMA Fiber	
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 0.3dB higher and RL will be 5dB lower and optical power is only 1W.

Package Dimensions



Ordering Information

HP11-①①-②-③-④④-⑤⑤-⑥

①①: Wavelength
06 - 1064nm

②: Type
A43 - Type A43
B43 - Type B43

③: Handling Power
01 - 1W
02 - 2W
R - Refer to specification

④④: Connector Type on Port 1 & 2
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
N - None
S - Specify

⑤⑤: Fiber Jacket on Port 1 & 2
B - 250um Bare Fiber
L - 900um Loose Tube
S - Specify

⑥: Fiber Length
1 - 1.0m
S - Specify

1064nm High Power Polarization Maintaining Isolator—Type A43/B43

Features

Low Insertion Loss
High Power Handling
High Isolation

Applications

Optical Fiber Amplifier
Instruments
Fiber Laser
Sensor Systems

Specifications

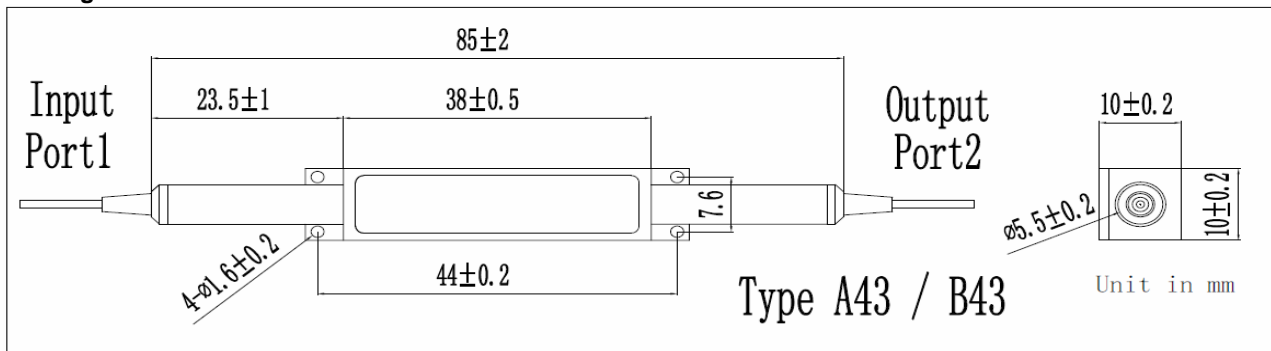
Parameters	Unit	Values	
		A43	B43
Isolator Type		A43	B43
Center Wavelength	nm	1064	
Operating Wavelength Range	nm	±5	
Typ. Peak Isolation	dB	35	
Min. Isolation at 23°C	dB	28	
Typ. Insertion Loss at 23°C	dB	1.6	1.7
Max. Insertion Loss at 23°C	dB	1.8	1.9
Max. Insertion Loss at 1064nm @ 1.0W , 23 °C	dB	2.0	2.1
Max. Insertion Loss at 1064nm @ 1.5W , 23 °C	dB	2.5	2.3
Max. Insertion Loss at 1064nm @ 2.0W , 23 °C	dB	--	2.5
Min. Return Loss (Input/Output)	dB	50/50	
Min. ER at 23°C (F-Type)	dB	22	
Min. ER at 23°C (B-Type)	dB	20	
Max. Optical Power (CW)	W	1.0 or specify	2.0 or specify
Max. Peak Power for pulse	kW	10 @ 1ns	
Max. Tensile Load	N	5	
Fiber Type		PM 980 Panda Fiber	
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 0.3dB higher, RL will be 5dB lower , ER will be 2dB lower and optical power is only 1W.

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

Package Dimensions



Ordering Information

HPMI-①①-②②②-③-④-⑤⑤-⑥⑥-⑦

①①: Wavelength
06 - 1064nm

②: Type
A43 - Type A43
B43 - Type B43

③: Handling Power
01 - 1W
02 - 2W
R - Refer to specification

④: Axis Alignment
F - Fast Axis Blocked
B - Both Axis Working

⑤⑤: Connector Type on Port 1 & 2
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
N - None
S - Specify

⑥⑥: Fiber Jacket on Port 1 & 2
B - 250um Bare Fiber
L - 900um Loose Tube
S - Specify

⑦: Fiber Length
1 - 1.0m
S - Specify

Optizone 1064nm High Power Collimated Beam Output Isolator

Features

- High Isolation & High Power Handling
- Low Polarization Dependent Loss
- Low Insertion Loss & High Return Loss
- Excellent Environmental Stability and Reliability

Applications

- Fiber Amplifier
- Fiber Laser
- Instrumentation Applications
- Lab Research

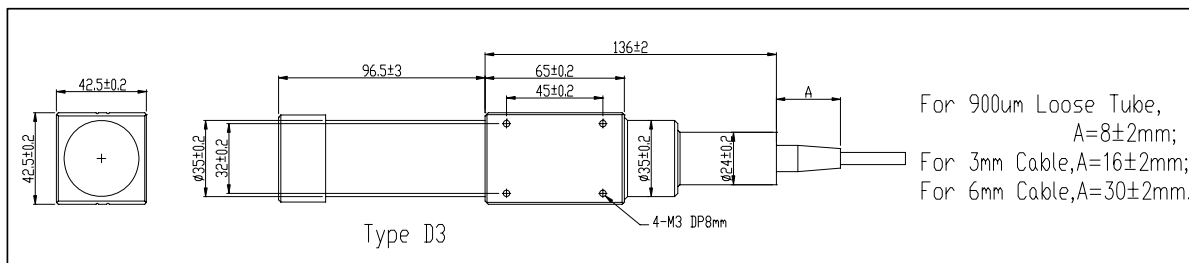
Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1064 or Specify
Operating Wavelength Range	nm	± 10
Typ. Peak Isolation	dB	30~35
Min. Isolation at 23°C	dB	25
Typ. Transmission	-	93%
Min. Transmission	-	90%
Min. Return Loss	dB	50
Max. Polarization Dependent Loss	dB	0.1
Nominal Output Beam Diameter ($1/e^2$)@0~1m WD	mm	5+/-0.5, 6+/-0.5, 7+/-0.5 or Specify
Max. Optical Power (CW)	W	5, 10, 20 or Specify
Max. Peak Power	KW	10, 20 or Specify
Fiber Type	-	SCF 20/130 Fiber or LMA Fiber
Max. Tensile Load	N	5
Operating Temperature	°C	-5 to +50
Storage Temperature	°C	-20 to +75

*For pulse applications, pls discuss with Optizone Technology.

*The dimensions of beam expanders are dependent on the required beam diameter,detailed informations pls contact Optizone or see the shipment data sheet.

Package Dimensions



Ordering Information

HPICI-①①-②②-③③-④④-⑤⑤-⑥⑥

①①: Wavelength

- 06 - 1064nm
- SS - Specify

③③: Handling Power

- 05 - 5W
- 10 - 10W
- 20 - 20W
- SS - Specify

⑤⑤: Fiber Jacket on Port 1 & 2

- L - 900um Loose Tube
- C - 3mm Loose Cable
- A - 3mm Armoured Cable
- B - 6mm Armoured Cable
- S - Specify

②②: Package Type

D3 - Type D3

④④: Output Beam Diameter

- 50 - 5mm
- 60 - 6mm
- 70 - 7mm
- SS - Specify

⑥⑥: Fiber Length

- 1.0 - 1.0m
- S - Specify

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 or Specify	
Operating Wavelength Range	nm	± 10	
Typ. Peak Isolation	dB	32-40	
Min. Isolation at 23°C	dB	26	
Typ. Insertion Loss	dB	0.6	
Max. Insertion Loss at 23°C, λ_c	dB	1.0	
Min. Return Loss (Port1/Port2)	dB	50/50	
Max. Polarization Dependent Loss	dB	0.15 (only for HPPI type isolators)	
Min. ER (only for HPMI type isolators)	dB	20 for B type, 22 for F type	
Max. Optical Power (CW)	W	1, 3, 5	10, 20, 30, 50
Max. Peak Power	-	5 or Specify	10 or Specify
Package Type	-	C5	C6
Fiber Type (only for HPPI type isolators)	-	HI 1060 Fiber or LMA Fiber	
Fiber Type (only for HPMI type 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 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower, and only for 1W CW.

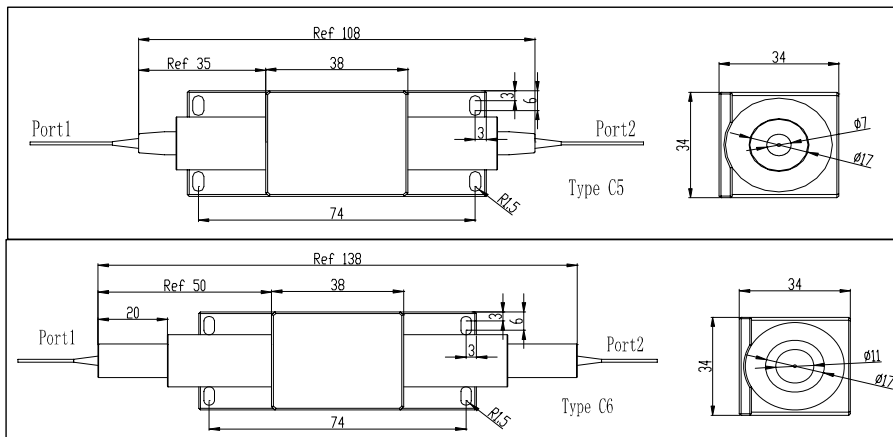
*The PM fiber and connector key are aligned to the slow axis.

*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

HPPI-①①-②②-③③-⑤⑤-⑥⑥-⑦

HPMI-①①-②②-③③-④-⑤⑤-⑥⑥-⑦

①①: Wavelength
 06 - 1064nm
 S - Specify

④: Axis Alignment
 F - Fast Axis Blocked
 B - Both Axis Working

⑦: Fiber Length
 0.8 - 0.8m
 S - Specify

②②: Package Type
 C5 - Type C5
 C6 - Type C6

⑤⑤: Connector Type on Port 1 & 2
 N - None
 S - Specify

③③: Handling Power
 01 - 1W
 05 - 5W
 50 - 50W
 S - Specify

⑥⑥: Fiber Jacket on Port 1 & 2
 L - 900um Loose Tube
 C - 3mm Loose Cable
 A - 3mm Armoured Cable
 S - Specify

Remarks:

- 1) HPMI, High Power Polarization Maintain
- 2) HPPI, High Power Polarization Insensitive Isolators;
- 3) Item④ is for HPMI type only.



1064nm High Power PM Collimated Beam Output Isolator

Features

High Isolation & High Power Handling
 High Extinction Ratio
 Low Insertion Loss & High Return Loss
 Excellent Environmental Stability and Reliability

Applications

Polarization Maintaining Fiber Amplifier
 Fiber Laser
 Instrumentation Applications
 Lab Research

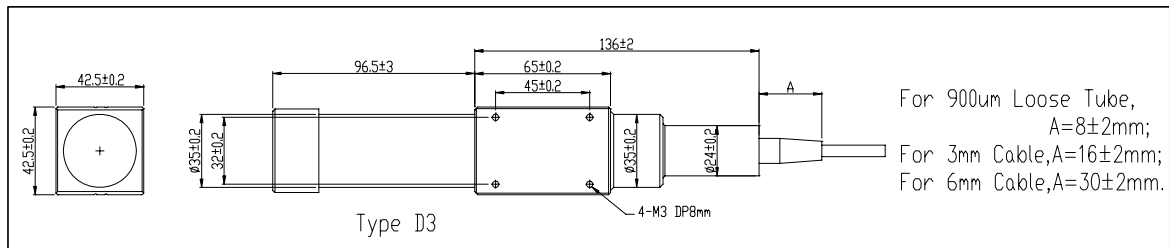
Specifications

Parameters	Unit	Values
Center Wavelength (λ_c)	nm	1064 or Specify
Operating Wavelength Range	nm	± 10
Typ. Peak Isolation	dB	30~35
Min. Isolation at 23°C	dB	25
Typ. Transmission	-	93%
Min. Transmission	-	90%
Min. Return Loss	dB	50
Min. Extinction Ratio (only for F Type)	dB	20
Nominal Output Beam Diameter ($1/e^2$)@0~1m WD	mm	5+/-0.5, 6+/-0.5, 7+/-0.5 or Specify
Max. Optical Power (CW)	W	5, 10, 20 or Specify
Max. Peak Power	KW	10, 20 or Specify
Fiber Type	-	PM 980 Panda Fiber or PLMA Fiber
Max. Tensile Load	N	5
Operating Temperature	°C	-5 to +50
Storage Temperature	°C	-20 to +75

*For pulse applications, pls discuss with Optizone Technology.

*The dimensions of beam expanders are dependent on the required beam diameter,detailed informations pls contact Optizone or see the shipment data sheet.

Package Dimensions



Ordering Information

HPMCI-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦⑦

①①: Wavelength

06 - 1064nm

SS - Specify

②②: Package Type

D3 - Type D3

③③: Handling Power

05 - 5W

10 - 10W

20 - 20W

SS - Specify

④④: Axis Alignment

F - Fast Axis Blocked

⑤⑤: Output Beam Diam

50 - 5mm

60 - 6mm

70 - 7mm

SS - Specify

⑥⑥: Fiber Jacket on Port 1 & 2

L - 900um Loose Tube

C - 3mm Loose Cable

A - 3mm Armoured Cable

B - 6mm Armoured Cable

S - Specify

⑦⑦: Fiber Length

0.8 - 0.8m

S - Specify

Optizone 1064nm Polarization Maintaining Isolator

Features

Low Insertion Loss
 High Power Handling
 High Isolation

Applications

Optical Fiber Amplifier
 Instruments
 Fiber Laser
 Sensor Systems

Specifications

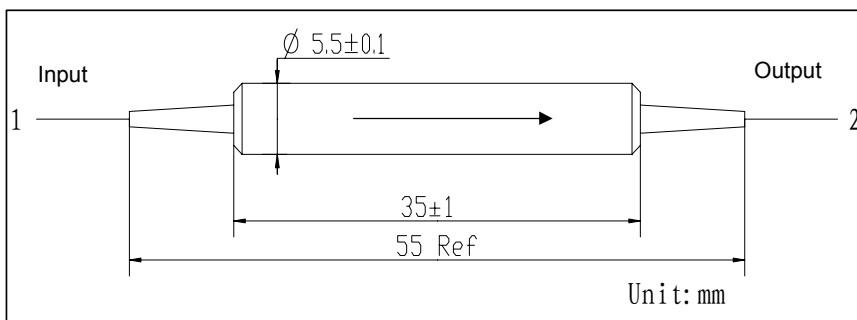
Parameters	Unit	Values			
		Single Stage		Dual Stage	
Grade		Grade P	Grade A	Grade P	Grade A
Center Wavelength (λ_c)	nm	1064			
Typ. Peak Isolation	dB	40	38	55	52
Min. Isolation at 23°C	dB	35	32	45	42
Typ. Insertion Loss at 23°C	dB	1.5	1.6	2.4	2.6
Max. Insertion Loss at -5°C-50°C	dB	1.8	2.0	3.2	3.4
Min. Return Loss (Input/Output)	dB	55/50	55/50	55/50	55/50
Min. Extinction Ratio (only for B Type)	dB	20	18	20	18
Min. Extinction Ratio (only for F Type)	dB	23	23	23	23
Max. Optical Power (CW)	mW	300			
Max. Tensile Load	N	5			
Fiber Type		PM 980 Panda Fiber			
Operating Temperature	°C	-5 to +50			
Storage Temperature	°C	-40 to +85			

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.

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

Package Dimensions



Ordering Information

PMI-①①-②-③-④-⑤⑤-⑥⑥-⑦

①①: Wavelength
 06 - 1064nm

②: Grade
 P - Premium Grade
 A - A Grade

③: Stage
 S - Single Stage
 D - Dual Stage

④: Axis Alignment
 F - Fast Axis Blocked
 B - Both Axis Working

⑤⑤: Connector Type on Port 1 & 2
 1 - FC/UPC
 2 - FC/APC
 3 - SC/UPC
 4 - SC/APC
 N - None
 S - Specify

⑥⑥: Fiber Jacket on Port 1 & 2
 B - 250um Panda Fiber
 L - 900um Loose Tube Panda Fiber
 S - Specify

⑦: Fiber Length
 0.8 - 0.8m
 S - Specify

Features

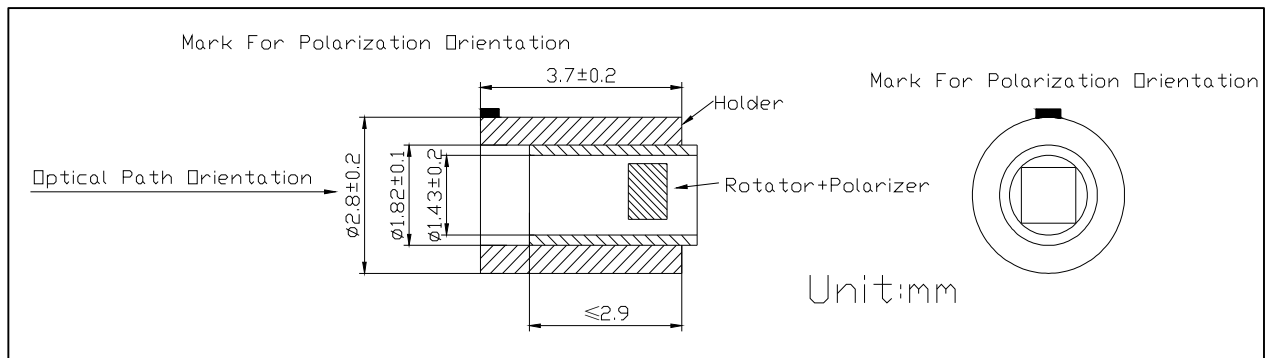
High Isolation
 Low Insertion Loss
 Large Aperture Features

Applications

Fiber Optic Lasers
 Optical Transmitters & Transceivers
 Research

Specifications

Parameter	Unit	Values	
		Single Stage	Dual Stage
Stage	-	Single Stage	Dual Stage
Center Wavelength	nm	1064	
Operating Wavelength Range	nm	±5	
Typ. Peak Isolation	dB	40	55
Min. Isolation at 23°C	dB	32	42
Typ. Insertion Loss at 23°C	dB	1.0	2.0
Max. Insertion Loss at 23°C	dB	1.2	2.2
Clear Aperture	mm	0.9	
Polarization Plane of Input	-	Refer to Drawing Below	
Tilt Angle of Input Light	deg	0	
Max. Optical Power (CW)	mW	300 @BD500um (Proper Alignment Is Necessary)	
Operating Temperature	°C	- 5 to +50	
Storage Temperature	°C	-40 to +85	

Package Dimensions

Ordering Information
FSI-①①-②-③

①①: Wavelength

06 - 1064nm

SS - Specify

③: Optical Path Orientation

F - Forward (as indicated above)

B - Backward

②: Stage

S - Single Stage

D - Dual Stage

④: Package Size

1 - dia2.8×L3.7mm

S - Specify

Optizone 1064nm Polarization Insensitive Isolator

Features

- Low Insertion Loss
- High Power Handling
- High Isolation
- Low PDL
- Low Cost

Applications

- Optical Fiber Amplifier
- Fiber Optic Sensor
- Instrumentation

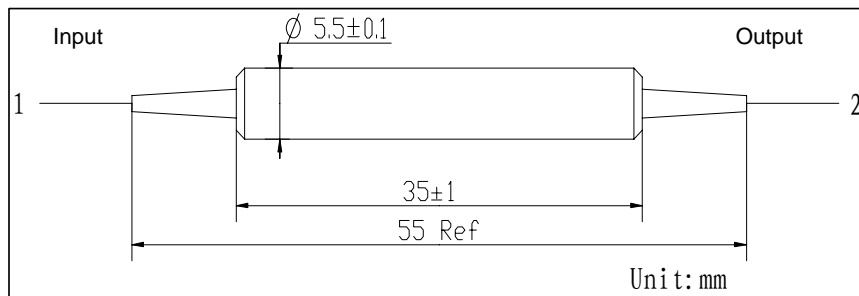
Specifications

Parameters	Unit	Values			
		Single Stage		Dual Stage	
Grade		Grade P	Grade A	Grade P	Grade A
Center Wavelength	nm	1064			
Operating Wavelength Range	nm	±5			
Typ. Peak Isolation	dB	40	38	55	52
Min. Isolation at 23°C	dB	30	28	45	42
Typ. Insertion Loss at 23°C	dB	1.4	1.5	2.3	2.5
Max. Insertion Loss at -5°C to 50°C	dB	1.8	2.0	3.2	3.4
Min. Return Loss (Input/Output)	dB	55/50	55/50	55/50	55/50
Max. PDL at 23°C	dB	0.15	0.15	0.15	0.15
Max. Optical Power (CW)	mW	300			
Max. Tensile Load	N	5			
Fiber Type		HI 1060 Fiber			
Operating Temperature	°C	-5 to +50			
Storage Temperature	°C	-40 to +85			

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.

Package Dimensions



Ordering Information

PII-①①-②-③-④④-⑤⑤-⑥

①①: Wavelength
06 - 1064nm

②: Grade
P - Premium Grade
A - A Grade

③: Stage
S - Single Stage
D - Dual Stage

④④: Connector Type on Port 1 & 2
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
N - None
S - Specify

⑤⑤: Fiber Jacket on Port 1 & 2
B - 250um Bare Fiber
L - 900um Loose Tube
C - 3mm Loose Cable
S - Specify

⑥: Fiber Length
1 - 1.0m
S - Specify

Optizone 1064nm Polarization Sensitive Isolator

Features

- Low Insertion Loss
- High Power Handling
- High Isolation
- High PDL
- Low Cost

Applications

- Optical Fiber Amplifier
- Fiber Optic Sensor
- Instrumentation

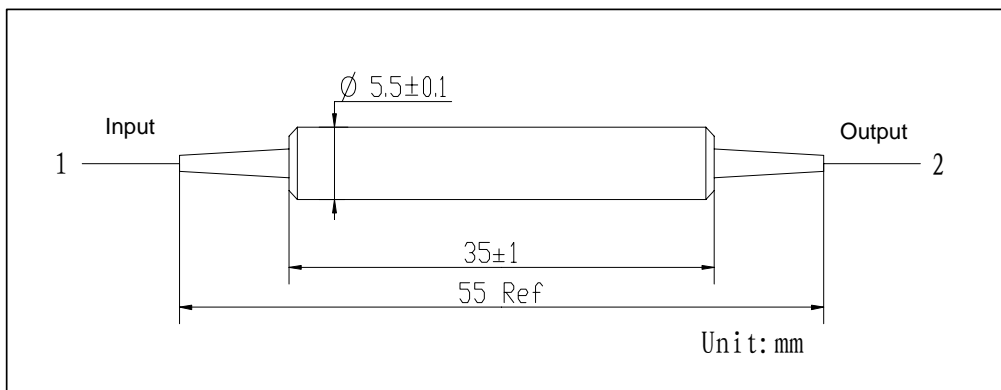
Specifications

Parameters	Unit	Values			
		Single Stage		Dual Stage	
Grade		Grade P	Grade A	Grade P	Grade A
Center Wavelength	nm	1064			
Operating Wavelength Range	nm	±5			
Typ. Peak Isolation	dB	40	38	55	52
Min. Isolation at 23°C	dB	30	28	45	42
Typ. Insertion Loss at 23°C	dB	1.5	1.6	2.4	2.6
Max. Insertion Loss at -5°C to 50°C	dB	2.0	2.2	3.4	3.6
Min. Return Loss (Input/Output)	dB	55/50	55/50	55/50	55/50
Min. PDL at 23°C	dB	25	23	25	23
Max. Optical Power (CW)	mW	300			
Max. Tensile Load	N	5			
Fiber Type		HI 1060 Fiber			
Operating Temperature	°C	-5 to +50			
Storage Temperature	°C	-40 to +85			

*Above specifications are for device without connector.

*For devices with connectors, IL will be 0.3dB higher and RL will be 5dB lower.

Package Dimensions



Ordering Information

PSI-①①-②-③-④④-⑤⑤-⑥

①①: Wavelength

06 - 1064nm

②: Grade

P - Premium Grade

A - A Grade

③: Stage

S - Single Stage

D - Dual Stage

④④: Connector Type on Port 1 & 2

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

⑤⑤: Fiber Jacket on Port 1 & 2

B - 250um Bare Fiber

L - 900um Loose Tube

C - 3mm Loose Cable

S - Specify

⑥: Fiber Length

1 - 1.0m

S - Specify