



1064 nm Isolator Polarization Beam Combiner/Splitter (IPBC/IPBS Series)

Rev 11

Description

The 1064 nm Isolator Polarization Beam Combiner/Splitter is a compact device which provides both polarization beam combining and optical isolation functions in one integrated device. The most common application is to combine the light of two pump lasers into a single fiber by doubling the pump power.

Key Features

- High Extinction Ratio
- Low Insertion Loss
- Compact Size

Applications

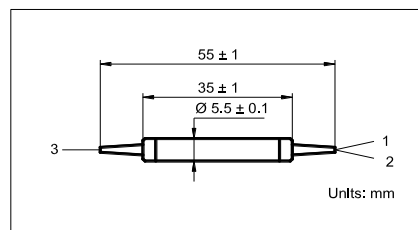
- Fiber Lasers
- Fiber Sensing

Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064
Typ. Insertion Loss, 23 °C	dB	1.8
Max. Insertion Loss, 23 °C	dB	2.1
Typ. Isolation, 23 °C	dB	35
Min. Isolation, λ_c @ power $\leq$ 30 mW, 23 °C	dB	25
Min. Extinction Ratio (for Splitter Only)	dB	20
Min. Return Loss	dB	50
Min. Directivity	dB	50
Max. Optical Power (Continuous Wave)	mW	300
Fiber Type	-	PM 980 Panda Fiber for Ports 1 & 2 HI 1060 or PM Panda Fiber for Port 3
Max. Tensile Load	N	5
Operating Temperature	°C	- 5 to + 50
Storage Temperature	°C	- 40 to + 85

¹IL is 0.5 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

Package Dimensions



Ordering Information

IPBS-①①-②-③-④-⑤

IPBC-①①-②-③-④-⑤

①①: Wavelength

06 - 1064 nm

SS - Specify

②: Connector Type

1 - FC/UPC 4 - SC/APC

2 - FC/APC N - None

3 - SC/UPC S - Specify

③: Fiber Jacket

B - 250 μ m Bare Fiber

L - 900 μ m Loose Tube

S - Specify

④: Fiber Type for Port 3

1 - HI 1060 Fiber

2 - Slow Axis Aligned 45° to Port 1

3 - Slow Axis Aligned to Port 1

S - Specify

⑤: Fiber Length

Q - 0.75 m

S - Specify