

PRODUCT INFORMATION SHEET

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

The 1064nm Isolator Polarization Beam Combiner/Splitter is a compact devices which provides both polarization beam combining and optical isolation in one integrated component. The most common application is to combine the light of two pump lasers into a single fiber to double the pump power to an Erbium-Doped Fiber Amplifier (EDFA) or a Raman Amplifier. Due to IPBC/IPBS has extremely low insertion loss it can improve the amplifier performance.

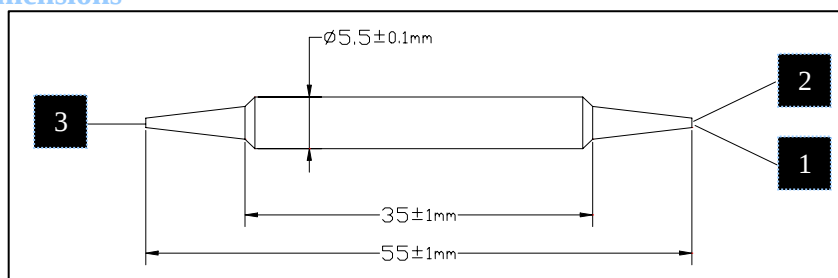
➤ Specifications

Parameter	Unit	Single stage
Center Wavelength	nm	1064
Operating Wavelength Range	nm	± 5
Typ. Insertion Loss	dB	1.8
Max. Insertion Loss	dB	2.1
Typ. Isolation	dB	35
Min. Isolation	dB	23
Min. Extinction Ratio (for splitter only)	dB	20
Min. Return Loss	dB	50
Min. Directivity	dB	50
Max. Optical Power	mW	300
Fiber Type		PM 980 Panda Fiber on port 1 and 2, HI 1060 or PM Panda Fiber on Port3
Max. Tensile Load	N	5
Operating Temperature	°C	-5 to + 70
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.

➤ Package Dimensions



➤ Ordering Information

IPBC-①-②②-③-④-⑤-⑥

IPBS-①-②②-③-④-⑤-⑥

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|----------------|--------------|-------------|---------------------------------|-------------------------------------|
| ① Stage | ② Wavelength | ③ Connector | ④ Fiber Type | ⑤ Fiber Type for Port 3 |
| 1-Single Stage | 06 - 1064nm | N - None | B- 250um Panda Fiber | 1 - HI 1060 fiber |
| | SS - Specify | S - Specify | D- 400um Panda Fiber | 2 - Slow axis align 45° to output 1 |
| | | | L- 900um loose tube Panda Fiber | 3 - Slow axis align to output 1 |
| | | | S - Specify | S - Specify |
| ⑥ Fiber Length | | | | |
| Q - 0.75 m | | | | |
| S - Specify | | | | |