



Isolator Polarization Beam Combiner/Splitter

(IPBC/IPBS Series)

The Isolator Polarization Beam Combiner/Splitter is a compact device 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 performan



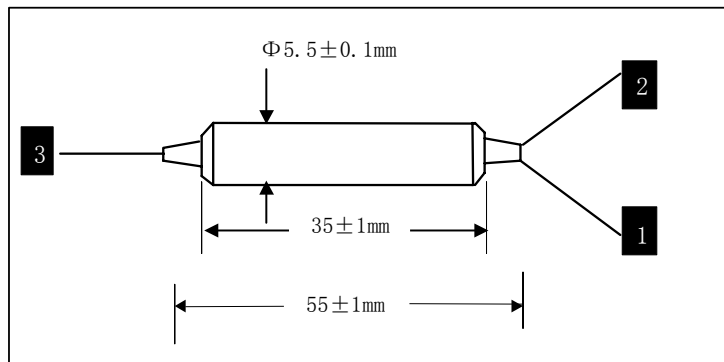
Specifications

Parameter	Unit	Single stage	Dual stage
Center Wavelength	nm	1310, 1480 or 1550	
Operating Wavelength Range	nm	± 20	
Typ. Insertion loss	dB	0.45	0.55
Ma. Insertion loss	dB	0.7	0.8
Typ. Isolation	dB	35	51
Min. Isolation	dB	20	42
*Min. Extinction Ratio (for splitter only)	dB	20	20
Min. Return Loss	dB	50	
Min. Directivity	dB	50	
Max. Optical Power	mW	500	
Fiber Type		PM Panda Fiber on Port 1 and 2, SMF-28 or PM Panda Fiber on Port 3	
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

①: Stage

1-Single Stage

2-Dual Stage

②②: Wavelength

31 - 1310nm

48 - 1480nm

55 - 1550nm

SS - Specify

③: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

④: Fiber Type

B- 250 um Panda Fiber

D- 400um Panda Fiber

L- 900um loose tube Panda Fiber

S - Specify

⑤: Fiber Type on Port 3

1 - SMF-28 (Standard)

2 - Slow axis align 45° to output 1

3 - Slow axis align to output 1

S - Specify

⑥: Fiber Length

Q - 0.75m

S - Specify

Remark: The PM fiber and the connector key are aligned to the slow axis

If port 3 is SMF-28 fiber, 250um bare fiber will be used when 250um or 400um Panda Fiber is selected for port 1 and 2