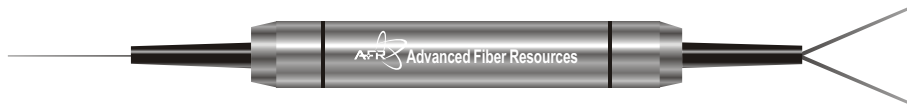


# Isolator Polarization Beam Combiner/Splitter (IPBC/IPBS Series)



The 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.

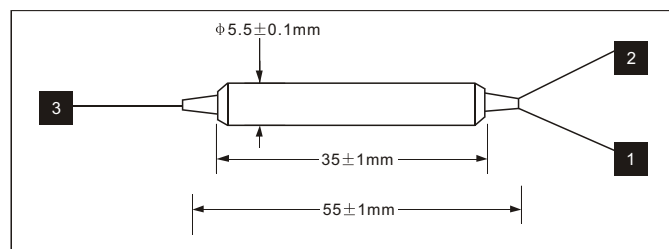


Specifications			
Parameters	Unit	Single Stage	Dual Stage
Center Wavelength	nm	1310, 1480 or 1550	
Operating Wavelength Range	nm	±20	
Typ. Insertion Loss	dB	0.45	0.55
Max. Insertion Loss	dB	0.7	0.8
Typ. Isolation	dB	35	51
Min. Isolation	dB	20	42
Min. Extinction Ratio (for splitter only)	dB	20	20
Min. 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 connectors.

\*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- 250um Panda Fiber

D- 400um Panda Fiber

L- 900um loose tube Panda Fiber

S - Specify

⑤: Fiber Type on Port3

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 on port 1 and 2