

Isolator Polarization Beam Combiner/Splitter

(IPBC/IPBS Series)



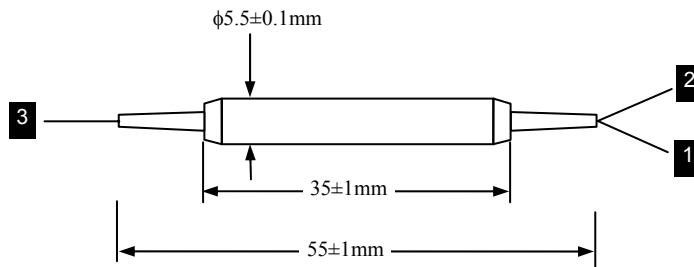
The Isolator Polarization Beam Combiner / Splitter is a compact device which provides both polarization beam combining and optical isolation in one integrated component. The most common application is to combine the light of two pump lasers into a single fiber to double the pump power to an Erbium-Doped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

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 (Continuous Wave)	mW	500	
Fiber Type		PM Panda fiber on Ports 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	

1. Above specifications are for device without connector.
2. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, and ER will be 2dB lower.

Dimension



Ordering Information

IPBC-①-②②-③-④-⑤-⑥

IPBS-①-②②-③-④-⑤-⑥

①: Stage	③: Connector Type	④: Fiber Type	⑥: Fiber Length
1 - Single Stage	1 - FC/UPC	B - 250um Panda fiber	Q - 0.75m
2 - Dual Stage	2 - FC/APC	D - 400um Panda fiber	S - Specify
	3 - SC/UPC	L - 900um loose tube	
②②: Wavelength	4 - SC/APC	S - Specify	
31 - 1310nm	N - None		
48 - 1480nm	S - Specify	⑤: Fiber Type on Port 3	
55 - 1550nm		1 - SMF-28 (standard)	
SS - Specify		2 - Slow axis align 45° to output 1	
		3 - Slow axis align to output 1	
		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 Ports 1 and 2

Contact Information

For more information about BATi's leadership in variable optical attenuation technology and other optical networking modules and components, visit our website at www.bostonati.com.

To obtain additional technical information or to place an order for this product, please contact us at:

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