

Isolator PBC/PBS (IPBC/IPBS)

Description

The Isolator Polarization Beam Combiner/Splitter is a hybrid device that has functions of PBC/PBS and isolator in a single compact package. The IPBC/S is characterized with low insertion loss, high isolation, high return loss, high extinction ratio and excellent environmental stability and reliability. It is ideal choice for application in fiber amplifier, and optical communication systems where signal monitoring is required.

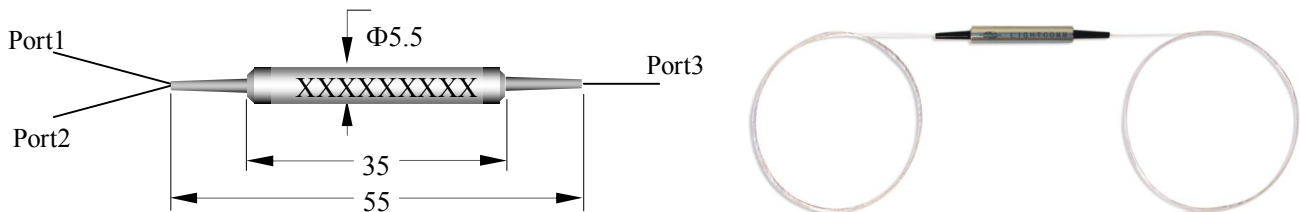
Key Features

- Low insertion loss
- High extinction ratio
- High isolation
- Excellent stability and reliability

Applications

- Fiber lasers
- Fiber amplifier
- Fiber Sensors
- Optical Communications

Mechanical Dimension



Specifications

Parameter	Type	Unit	Isolator PBC/PBS					
			IPBC		IPBS		IPBS	
Center wavelength		nm	1064			1310,1440 or 1550		
Operating bandwidth		nm	±5			±15		
Insertion loss @23°C	Working axis type		IPBC	IPBS		IPBC	IPBS	
			0, 1, 2	1	0&2	0, 1, 2	1	0&2
		dB	≤2.1(S) ≤3.5(D)	≤2.1(S) ≤3.5(D)	≤5.1(S) ≤6.5(D)	≤0.7(S) ≤0.9(D)	≤0.7(S) ≤0.9(D)	≤3.7(S) ≤3.9(D)
Isolation@23°C		dB	≥25(S) ≥42 (D)					
Extinction ratio (for Splitter only)		dB	≥20					
Return loss		dB	≥50					
Directivity		dB	≥50					
Handling power		mW	≤300			≤500		
Fiber type		/	Port 1& Port 2: PM fiber			Port 3: PM fiber or SM fiber		
Operating temperature		°C	-5 to +50			-5 to +70		
Storage temperature		°C	-40 to +85					
Dimensions		mm	Φ5.5× L35					

* For IPBS with working axis type 0, Insertion loss is for un-polarized light input;

* For IPBS with working axis type 2, Insertion loss is for polarized light input.

*S=Single Stage, D=Dual Stage

*IL is 0.3dB (1310~1550nm) or 0.5dB (1064nm) higher, RL is 5dB lower and ER is 2dB lower for each connector added.

The default connector key is aligned to slow axis.

Ordering Information

IPBC(S)-XXX-X-XXXX-X-X-XX/XXX-XX*XX-X

