

Isolator Polarization Beam Combiner/Splitter



Polarization Beam Combiner/Splitter (PBC, PBS) is designed to either combine two orthogonal polarizations into a single fiber or split a single input into its orthogonal linear polarizations through two fiber outputs. PBS is an important device in EDFA and Raman amplifiers.

Specification:

Parameter		Unit	Value		
Isolator stage			Single Stage		Dual stage
Center Wavelength		nm	1310, 1450, 1480, 1550	1064	1310, 1450, 1480, 1550
Bandwidth		nm	±20	±5	±20
Max. Insertion Loss		dB	0.7	2.1	0.8
Min. Isolation at 23°C			20	25	40
Min. Extinction Ratio for PBS		dB	20		
Min. Return Loss		dB	50		
Fiber type	Port1 & 2		PM panda fiber	PM980	PM panda fiber
	Port 3		SMF-28e or PM panda fiber	HI1060 or PM980	SMF-28e or PM panda fiber
Max. Optical Power (CW)			500	300	500
Operating Temperature		°C	-5 to +70	-5 to +50	-5 to +70
Storage Temperature		°C	-40 to +85		
Package Dimension		mm	5.5x35 tube or module box 90x20x9.5		

Above specification is for device without connector.

Device with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower.

PM fiber & connector key are aligned to the slow axis.

Package Dimension

