

### Introduction



Rayzer's **Polarization Beam Splitter / Combiner (PBS/PBC)** Series products, are designed to either combine two orthogonal polarization into a single fiber or split a single input into its orthogonal linear polarization through two fiber outputs. The most common application is to combine the light of two pump lasers into one single fiber to double the pump power. The typical configuration uses two PM fibers as input and SM fiber as output. The device can also be used as a beam splitter.



### Specification

Parameters	Unit	Values	
Center Wavelength	nm	1310/1550	
Grade	-	Grade P	Grade A
Operating Wavelength Range	nm	± 40	± 40
Typ. Insertion Loss	dB	0.4	0.5
Max. Insertion Loss	dB	0.6	0.7
Typ. Extinction Ratio (For Splitter Only)	dB	22	20
Min. Directivity	dB	50	50
Handing Power	mW	500	
Max. Tensile Load	N	5	
Fiber Type	--	PM Panda Fiber On Port1&2. PM Panda Fiber or SMF28e On Port3	
Working Temperature	°C	-5 to +75 °C	
Storage Temperature	°C	-40 to +85 °C	

\*IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

\*Above specifications are for device without connector and may change without notice.

### Ordering Information

(PBS)/(PBC)-①-②-③-④-⑤-⑥

①Central Wavelength)	②Grade	③Fiber Type	④Fiber Length	⑤Fiber Jacket	⑥Connector	⑦Package Dimension
980-980nm	P-P Grade	Hi1060-Hi1060	1-1M	0-Bare Fiber	FU-FC/PC	5.5x35
1064-1064nm	A-A Grade	PM980- PM980 Slow axis aligned to Port 1	S-Specify	1-900µm Loose	FA-FC/APC	
1550-1550nm		PM980/45°-PM980 Slow axis aligned 45° to Port 1		2-2mm Cable	S-specify	
S-Specify		S-Specify				