

## Polarization Beam Combiner/Splitter

<b>Features:</b>
Low Insertion Loss High Extinction Ratio High Stability and Reliability
<b>Application:</b>
EDFA & Raman Amplifier Fiber Sensor Coherent Telecommunication Systems Polarization Mode Dispersion Compensator

**Specifications:**

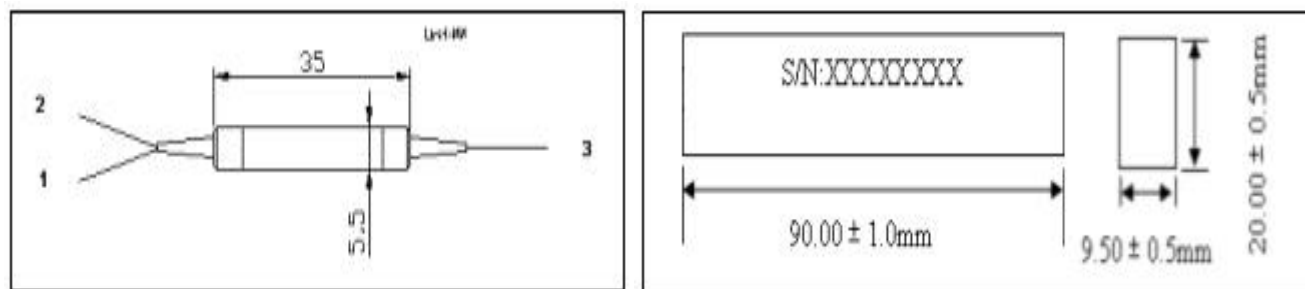
Parameter		Value							
Parameter		P	A	P	A	P	A	P	A
Wavelength (nm)		1310, 1450,1480, 1550,1580		1030,1064		850, 980		780	
Operating Bandwidth (nm)		±40		±20		±20		±10	
Typ. Insertion Loss (dB)		0.40	0.50	0.60	0.70	0.70	0.90	1.0	1.1
Insertion Loss (dB)		≤0.60	≤0.70	≤0.80	≤0.90	≤0.90	≤1.1	≤1.2	≤1.3
Extinction Ratio (dB) (Only for PBS)		≥22	≥20	≥22	≥20	≥22	≥20	≥20	≥18
Directivity (dB)		≥50							
Return Loss (dB)		≥50							
Power Handling (mW)		≤300							
Fiber Type	Port 1 & 2	PM 1310&PM1550		PM980		PM 850			
	Port 3	SMF-28e or PM1310&PM1550		HI 1060 or PM 980		HI 780 or PM 850			
Operating Temperature (°C)		-5 ~ +70							
Storage Temperature (°C)		-40 ~ +80							
Dimensions (mm)		φ5.5 × L35 (only for bare fiber or 900um loose tube)							
Dimensions (mm)		L90*W20*H9.5 (ABS) (only for 3mm or 2mm cable)							

\*Above specifications are for device without connector.

\*For devices with connector,IL will be 0.3dB higher,ER will be 2dB lower and RL will be 5dB lower.

\*The PM fiber and the connector key are aligned to the slow axis.

**Package Dimensions:**



**Ordering Information:**

## Polarization Beam Combiner/Splitter

CAT0206 REV02

PBC PBS	Wavelength	Grade	00	Fiber Type for Port 3	Package	Pigtail Type	Length	Connector
PBC	0780=780nm	P=P		1=SMF-28e	0=φ5.5×L35	1=250um	H=0.5m	0=None
PBS	0850=850nm	grade		2=HI 1060	mm	bare fiber	8=0.8m	1=FC/UPC
	0980=980nm	A=A		3=PM Fiber, Slow Axis	1=90*20*9.5	2=900um	1=1.0m	2=FC/APC
	1030=1030nm	grade		Align to Port 1	mm	loose tube	S=Specify	3=SC/APC
	1064=1064nm			4=PM Fiber, Slow Axis	2=Glass tube	3=3mm		4=SC/UPC
	1310=1310nm			Align 45° to Port 1	S=Specify	loose tube		6=LC/UPC
	1450=1450nm			5=HI780		4=2mm		7=LC/APC
	1480=1480nm					loose tube		S=Specify
	1550=1550nm					S=Specify		