

Isolator Polarization Beam Combiner/Splitter

Features	
Low Insertion Loss	
High Extinction Ratio	
High Stability and Reliability	
Application	
Amplifier	
Fiber Sensor	
Coherent Telecommunication Systems	
Polarization Mode Dispersion Compensator	

Specifications

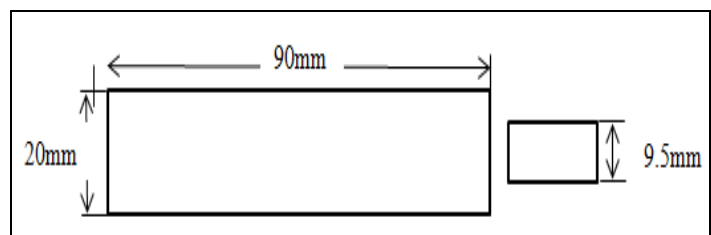
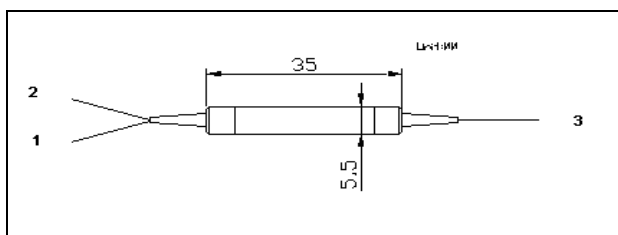
Parameter	Values			
	Single Stage		Dual Stage	
Isolator Stage				
Center Wavelength (nm)	1310,1480,1550	1064	1310,1480,1550	
Operating Wavelength Range (nm)	±20	±5	±20	
Typ. Insertion Loss (dB)	0.45	1.8	0.55	
Insertion Loss (dB)	≤0.7	≤2.1	≤0.8	
Typ. Isolation (dB)	35	35	55	
Isolation @23℃ (dB)	≥20	≥25	≥40	
Extinction Ratio (dB) (Only for PBS)	≥20			
Directivity (dB)	≥50			
Return Loss (dB)	≥50			
Power Handling (mW)	≤500	≤300	≤500	
Fiber Type	Port 1 & 2	PM Panda Fiber	PM Panda Fiber	PM Panda Fiber
	Port 3	SMF-28e or PM Panda Fiber	HI 1060 or PM Panda Fiber	SMF-28e or PM Panda Fiber
Operating Temperature (℃)	-5 ~ +70	-5 ~ +50	-5 ~ +70	
Storage Temperature (℃)	-40 ~ +80			
Dimensions (mm)	φ5.5 × L35(P1) (only for bare fiber or 900um loose tube)			
	L90*W20*H9.5 (ABS) (P2) (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

IPBS IPBC	Wavelength	Isolator type	0	Fiber for Port 3	Package Dimensions	Pigtail Type	Length	Connector
	1064=1064nm 1310=1310nm 1480=1480nm 1550=1550nm	S=Single stage D=Dual stage		1=SMF-28e 2=PM Fiber, Slow Axis Align to Port 1 3=PM Fiber, Slow Axis Align 45 °to Port	1=P1(ϕ 5.5 × L35) 2=P2(L90*W 20*H9.5)	1=250um bare fiber 2=900um loose tube 3=3mm loose tube 4=2mm loose tube	H=0.5m 8=0.8m 1=1.0m 5=1.5m 2=2.0m 3=3.0m 4=4.0m A=2.5m B=5.0m	0=None 1=FC/UPC 2=FC/APC 3=LC/UPC 4=LC/APC 5=SC/APC 6=SC/UPC