

## 980nm Polarization Beam Splitter

### Features

Low Insertion Loss  
High Return Loss  
High Extinction Ratio  
High Reliability  
High Stability

### Applications

Fiber Optical Current Transducer  
Fiber Sensor  
Optical Fiber Gyro  
Coherent Telecommunication Systems

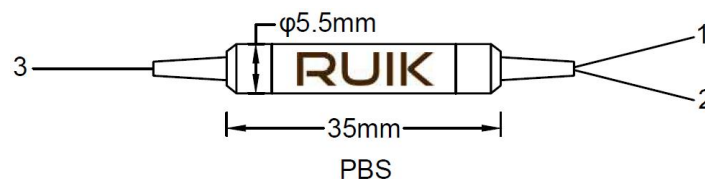
### Specifications

Parameters		Unit	Values	
Grade		-	P	A
Center Wavelength		nm	1064,980	
Operating Wavelength Range		nm	±20	
Typ. Insertion Loss at 23℃		dB	0.6	0.7
Max. Insertion Loss at 23℃		dB	0.8	0.9
Min. Extinction Ratio at 23℃		dB	22	20
Min. Directivity		dB	50	
Min. Return Loss		dB	50	
Max. Optical Power(CW)		mW	300	
Max. Tensile Load		N	5	
Fiber Type	Port 1 & 2	-	PM Panda fiber	
	Port 3		SMF-28E, Hi1060 or PM Panda fiber	
Operating temperature		℃	-5~+70	
Storage temperature		℃	-40~+85	

For device with connector, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB lower.

The default connector key is aligned to slow axis.

### Package Dimensions



Routing path is from port 3 to 1,2, Here are three options of polarized state from Port 3 to Port 1 & 2:

#### Option 1, SM to PM,

Port 3, Circularly polarized light in,

Port 1: 50%,Linear polarized light out, through slow axis, Port 2: 50%,Linear polarized light out, through slow axis

#### Option 2: PM to PM, port 3 is slow axis 0° aligned to port 1

1.Port 3, Linearly polarized light in, through slow axis,

Port 1: 100%,Linear polarized light out, through slow axis, Port 2: 0%

2.Port 3,Linearly polarized light in, through fast axis,

Port 1: 0%, Port 2: 100%,Linear polarized light out, through slow axis

#### Option 3:PM to PM,port 3 is slow axis 45° aligned to port 1

1.Port 3, Linearly polarized light in, through slow axis,

Port 1: 50%,Linear polarized light out, through slow axis, Port 2: 50%,Linear polarized light out, through slow axis

2.Port 3, Linearly polarized light in, through fast axis,

Port 1: 50%,Linear polarized light out, through slow axis, Port 2: 50%,Linear polarized light out, through slow axis

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### Ordering Information

PBS-1111-23-444-555-678-999

1111	-Center Wavelength:	1550=1550nm,1310=1310nm,.....,0980=980nm
2	-Grade:	P=Perfect grade, A=A grade
3	-Option for Port 3 to 1,2:	1=Option 1, 2=Option 2, 3=Option 3
444	-Fiber Type for Port 3:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
555	-Fiber Type for Port 1,2:	001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E
6	-Package Dimension:	0=φ5.5x35mm, 1=φ5.5x50mm, S=Specified
7	-Pigtail Type:	0=250μm bare fiber, 1=900μm loose tube
8	-Fiber Length:	0=0.8m,1=1m
999	-Connector for Port 1,2,3:	0=FC/UPC,1=FC/APC,2=SC/UPC,3=SC/APC,4=LC/UPC,5=LC/APC, N=None