# Isolator Polarization Beam Splitter

## (1310nm,1550nm,1064nm)

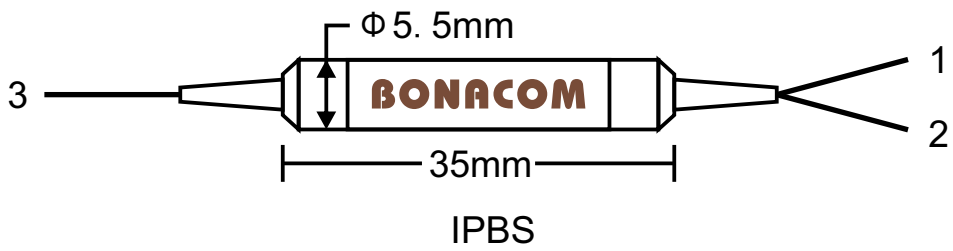
### Features

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

### Applications

- EDFA & Raman Amplifier
- Fiber Sensor
- Coherent Telecommunication Systems
- Polarization Mode Dispersion Compensator


## ◆ 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

Address: 2F,DF Industrial Park,Shanghenglang Community,Dalang,Longhua New District,Shenzhen,P.R.C.518109.
www.bonaphotonics.com sales@bonaphotonics.com Tel:+0755-21035679


Bonacom Technology reserves the right to change any specifications without prior notice.

## Specifications

| Parameter | | Unit | Value | | |
|---|---|---|---|---|---|
| Stage | | - | Dual | Single | |
| Center Wavelength | | nm | 1310,1550 | 1310,1550 | 1064 |
| Operating Wavelength Range | | nm | ±20 | ±20 | ±5 |
| Typ. Insertion Loss at 23℃ | | dB | 0.55 | 0.45 | 1.8 |
| Max. Insertion Loss at 23℃ | | dB | 0.80 | 0.70 | 2.1 |
| Typ. Isolation | | dB | 51 | 35 | 35 |
| Min. Isolation | | dB | 42 | 20 | 25 |
| Min. Extinction Ratio at 23℃ | | dB | 25 | 20 | 20 |
| 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 | - | PM Panda fiber or SMF-28E or Hi1060 | | |
| 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.

## Ordering Information

IPBS-1111-234-555-666-789-AAA

| | | |
|---|---|---|
| 1111 | -Center Wavelength: | 1550=1550nm,1310=1310nm,.....,0850=850nm |
| 2 | -Grade: | P=Perfect grade, A=A grade |
| 3 | -Core Type: | S=Single-core, D=Dual-core |
| 4 | -Option for Port 3 to 1,2: | 1=Option 1, 2=Option 2, 3=Option 3 |
| 555 | -Fiber Type for Port 3: | 001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E |
| 666 | -Fiber Type for Port 1.2: | 001=PM1550, 002=PM1310, 003=PM980, 004=Hi1060, 008=SMF-28E |
| 7 | -Package Dimension: | 0=φ5.5x35mm, 1=φ5.5x50mm, S=Specified |
| 8 | -Pigtail Type: | 0=250μm bare fiber, 1=900μm loose tube |
| 9 | -Fiber Length: | 0=0.8m,1=1m |
| AAA | -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 |

Address: 2F,DF Industrial Park,Shanghenglang Community,Dalang,Longhua New District,Shenzhen,P.R.C.518109.
www.bonaphotonics.com sales@bonaphotonics.com Tel:+0755-21035679


Bonacom Technology reserves the right to change any specifications without prior notice.