



## Single Polarization Band Pass Isolator

I&Optics' single polarization band pass isolator can filter out the unwanted wavelength and polarization, transmit the signal with very low loss and block the reversed light. It features low insertion loss, high extinction ratio, high isolation and flat band property. It can be used in lasers, telecom, sensors, instruments, testing systems and R&D.

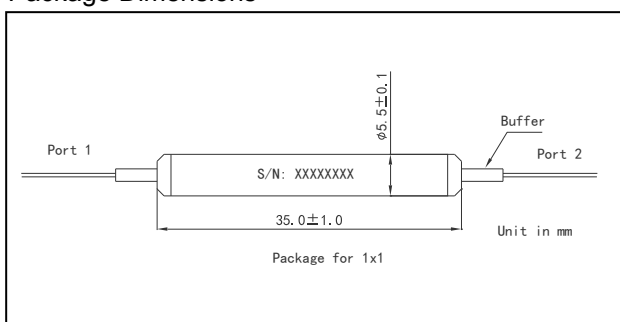
### Specification

Parameter	Test Condition	Unit	Value
Port Configuration	-	-	1x1
Isolator Stage Number	-	-	Single      Dual
Working Axis of PM Fiber	-	-	Fast Axis Blocked
Nominal Center Wavelength	Port 1 to Port 2	nm	1550 or Specify
Pass Band Wavelength	Port 1 to Port 2	nm	+/-0.11, +/-0.25, +/-1.0 or Specify
Reject Band Wavelength	Port 1 to Port 2	nm	1500~CWL-0.7 / 1.4 / 3.0 & CWL+0.7 / 1.4 / 3.0~1630
Max. Pass Band IL	Port 1 to Port 2	dB	0.9, Typ. 0.7      1.0, Typ. 0.8
Min. Reject Band Isolation	Port 1 to Port 2	dB	25, Typ. 30
Min. Reversed Isolation	at 23°C, Port 2 to Port 1	dB	30, Typ. 38      50, Typ. 55
Min. Extinction Ratio	at 23°C, at Slow or Fast Axis, Port 1 to Port 2	dB	26, Typ. 28
Min. Return Loss	-	dB	50
Max. Power Handling Rate	CW, Total Power, Proper SOP	mW	500 or Specify
Fiber Type	-	-	PM 1550 Panda Fiber or Specify
Max. Fiber Tensile Load	-	N	5
Operating Temperature	-	°C	-5 to 70
Storage Temperature	-	°C	-40 to 85

Above values are for device without connectors. For device with connectors, IL will be 0.3dB higher, ER will be 2dB lower, and return loss will 5dB lower.

The default alignment of working polarization and connector key is to slow axis of fiber. Special requirement please call.

### Package Dimensions



### Ordering Informations

SPBPI-①-②-③-④-⑤-⑥

① - Center Wavelength

1550 - 1550.0nm

SSSS - Specify

② - Pass / Reject Band Width

0.22 - Pass Band 0.22nm, Reject Band 1.4nm

0.50 - Pass Band 0.5nm, Reject Band 2.8nm

0206 - Pass Band 2nm, Reject Band 6nm

SSSS - Specify

③ - Isolator Stage Number

S - Single Stage

D - Dual Stage

④ - Connector Type on port 1/2

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

⑤ - Fiber Jacket on Port 1/2

B - Bare Fiber

L - 900um Loose Tube

⑥ - Fiber Length

0.8 - 0.8m