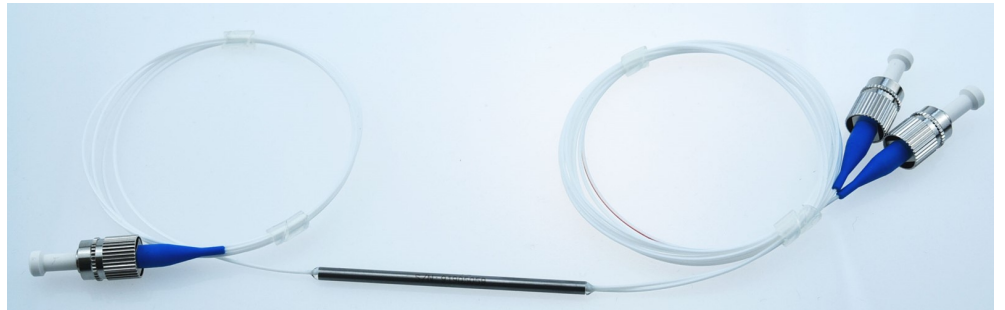


## 1x2(2x2) Single Mode WDM

980/1550nm and 1480/1550nm WDM are widely used in EDFA, Which can combine the pump power and optical signal into the Er-fiber. 1310/1550 WDM can be used to combine or split 1310nm and 1550nm optical signals, which double the fiber transmission capability and ensure bi-direction communication in a single fiber.



### Key Features

- Low PDL
- Low insertion loss
- High wavelength isolation
- Extremely good stability and reliability

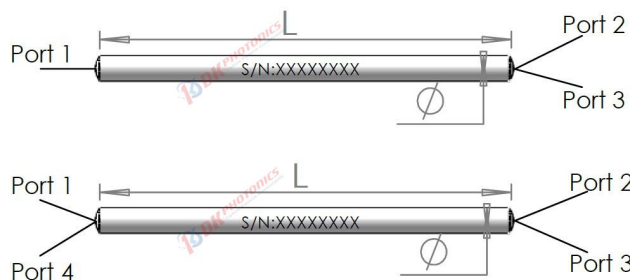
### Applications

- Optical fiber amplifier
- EDFA module
- Communications system

### Package Dimension

Configuration	1x2 or 2x2			
	Pigtails Diameter	250μm bare fiber	900μm loose tube	900μm/2mm/3mm loose tube
980/1550 WDM		Φ3.0×54	Φ3.0×54	
1310/1550 WDM		Φ3.0×54	Φ3.0×54	
1480/1550 WDM		Φ3.0×60	Φ3.0×70	90×20×10
1310/1550 WDM (high isolation)				100x80x10

\*Other package dimensions can be made on customer request.



\*Due to ongoing design improvements, the package size is subject to change. Please contact DK Photonics for confirmation if you have special requirements.

## For more Info

Please contact us at:

Tel: +86-755-23736280

Fax: +86-755-26746512

E-mail: [sales@dkphotonics.com](mailto:sales@dkphotonics.com)

<https://www.dkphotonics.com>

Add.:

4F, Bldg. 18, Qinghu Industrial Park,

Dahe Road, Longhua Dis.,

Shenzhen, China 518109

## 1x2(2x2) Single Mode WDM

### Performance Specifications

Parameter	Unit	980/1550nm WDM				1310/1550nm WDM				1480/1550nm WDM	
		Normal		Mixed Fiber		Normal		High Isolation		1480/1550	
Fiber		HI1060flex				SMF-28e					
Common port & Pump Port	-										
Signal Port	-	HI1060flex		SMF-28e							
Operating wavelength	nm	980 and 1550				1310 and 1550				1480 and 1550	
Operating bandwidth	nm	±10/20				±15				±5	
Grade	mm	P	A	P	A	P	A	P	A	P	A
Insertion loss	dB	≤0.15	≤0.25	≤0.30	≤0.40	≤0.20	≤0.30	≤0.50	≤0.60	≤0.30	≤0.35
Isolation	dB	≥20	≥18	≥20	≥18	≥17	≥16	≥32	≥30	≥15	≥14
PDL	dB	≤0.05	≤0.10	≤0.05	≤0.10	≤0.05	≤0.10	≤0.10	≤0.15	≤0.10	≤0.10
Directivity	dB					≥55					
Maximum Power Handling	W					2					
Operating temperature	°C					-40 ~ +85					

1. Above specification are for device without connector, and may change without notice. All parameters are tested at room temperature.
2. Other specifications can be made on customer request.
3. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower. The pass optical power is 2 W only for connector added.
4. If there is pulse application, please be sure to inform us of pulse energy and peak power.
5. Insertion Loss around 1383nm (water peak) is counted in the specifications above.

### Order information P/N: FBTWDM-①-②-③-④-⑤-⑥-⑦-⑧

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better. If need any connector, we do not recommend choosing a 250µm bare fiber pigtail.

①	②	③	④	⑤	⑥	⑦	⑧
Grade	Port	Wavelength	Fiber Type	Pigtails Diameter	Fiber Length	Connector	Package
P: P Grade	102:1x2	9815:980/1550nm	S28: SMF-28e	25:250µm	05:0.5m	00: None	3.0x54
A:A Grade	202:2x2	1315:1310/1550nm	H60F:HI1060flex	90:900µm	10:1.0m	FP: FC/PC	3.0x60
		1415:1480/1550nm	XX: Others	20:2.0mm	15:1.5m	FA: FC/APC	3.0x70
				30:3.0mm	XX: Others	SP: SC/PC	90x20x10
				XX: Others		SA: SC/APC	
						ST: ST/PC	
						LP: LC/PC	
						LA: LC/APC	
						XX: Others	

**Part Number Example #1:** FBTWDM-P-102-9815-H60F-25-10-00-3.0x54

**Description:** 1x2 single mode 980/1550 WDM, P grade, HI1060 flex fiber, bare fiber, 1.0m length fiber pigtails, without connectors at all ports, 3.0x54mm package.

**Part Number Example #2:** FBTWDM-P-102-1315-S28-90-10-FA-3.0x54

**Description:** 1x2 single mode 1310/1550 WDM, P grade, SMF-28e fiber, 900um tube, 1.0m length fiber pigtails, FC/APC connectors at all ports, 3.0x54mm package.

### Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.