SM Fused WDM Series

DK PHOTONICS Optical Passive Components

1x2(2x2) Single Mode WDM

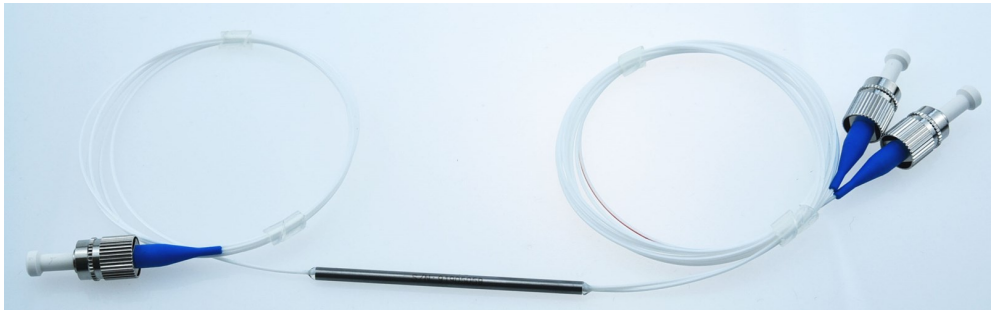
Key Features

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

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.

Applications

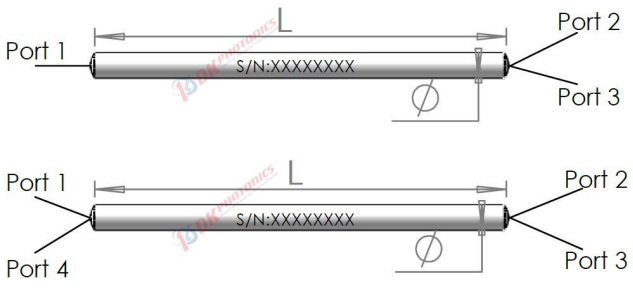
- Optical fiber amplifier
- EDFA module
- Communications system



Package Dimension

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

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Performance Specifications

Parameter		Unit	980/1550nm WDM				1310/1550nm WDM				1480/1550nm WDM	
			Normal		Mixed Fiber		Normal		High Isolation		1480/1550	
Fiber	Common port & Pump Port	-	HI1060flex				SMF-28e					
	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		℃	-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 A:A Grade	102:1x2 202:2x2	9815:980/1550nm 1315:1310/1550nm 1415:1480/1550nm	S28: SMF-28e H06F:HI1060flex XX: Others	25:250μm 90:900μm 20:2.0mm 30:3.0mm XX: Others	05:0.5m 10:1.0m 15:1.5m XX: Others	00: None FP: FC/PC FA: FC/APC SP: SC/PC SA: SC/APC ST: ST/PC LP: LC/PC LA: LC/APC XX: Others	3.0x54 3.0x60 3.0x70 90x20x10

Part Number Example #1: FBTWDM-P-102-9815-H06F-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.