

## 980/1064nm Single Mode Fused WDM for fiber laser

### Key Features

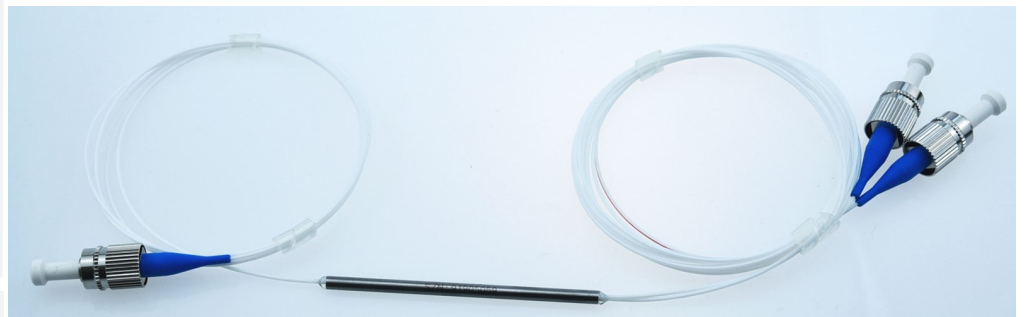
- Low PDL
- Low insertion loss
- High wavelength isolation
- Extremely good stability and reliability

### Applications

- Optical fiber amplifier
- Optical fiber laser
- Communications system

Wavelength Division Multiplexers (WDMs) are used to combine or split two different single mode signals with low insertion loss. DK Photonics' WDMs featured on this page are manufactured using Fused Biconic Taper (FBT) technology and are designed for common NIR and telecom wavelengths. They are an ideal solution for combining pump and signal wavelengths in fiber lasers and amplifiers or for combining telecom signals. Our WDMs have undergone extensive testing to ensure they meet or surpass Telcordia requirements; please see the Reliability Testing tab for details.

Because most WDMs are bidirectional, they can also be used to split two wavelengths entering the common port into two separate output ports. DK Photonics' also offers 1050 nm / 635 nm, 1300 nm / 650 nm, and 2000 nm / 600 - 800 nm WDMs that allow the IR signal to be combined with a pump source or visible alignment beam. DK Photonics also offers single mode WDMs designed for 473 nm - 785 nm and polarization-maintaining WDMs.



## 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>

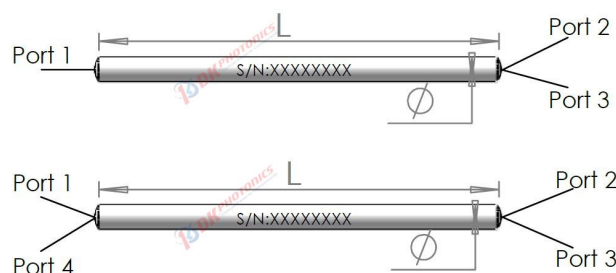
Add.:

4F, Bldg. 18, Qinghu Industrial Park,

Dahe Road, Longhua Dis.,

Shenzhen, China 518109

### Package Dimension



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

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### Performance Specifications

Parameter	Unit	Values
Operating wavelength	nm	980 /1064 or 980 /1053
Operating bandwidth	nm	±5
Insertion loss	dB	≤0.40
Isolation	dB	≥15
PDL	dB	≤0.10
Return Loss	dB	≥55
Fiber Type	-	1060-XP or other
Maximum Power Handling	W	1, 2, 5, 10
Operating temperature	°C	-40 ~ +85
Storage Temperature	°C	-50 ~ +85
Port Configuration	-	1x2/2x2
Package Dimension	mm	Φ3.0×54(bare fiber), or Φ3.0×60(900μm loose tube)

1. Above specification are for device without connector, and may change without notice.
2. Other specifications and wavelength can be made on customer request.
3. IL is 0.3 dB higher and RL is 5 dB lower for each connector added.
4. Normal each WDM can handle a maximum power of 2 W with connectors and a maximum power of 5 W when unterminated (bare) fiber or spliced. For higher power applications, please contact us
5. Other package dimensions can be made on customer request.
6. For >10W high power applications, we will use heat sink package, contact us for details.

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

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
Port	Wavelength	Handling Power	Pigtails Diameter	Fiber Length	Connector
102:1x2	9864:980/1064nm	L: <1W	25:250μm	05:0.5m	00: None
202:2x2	9853:980/1053nm	2:2W	90:900μm	10:1.0m	FP: FC/PC
	XX: Others	5:5W	XX: Others	15:1.5m	FA: FC/APC
		10:10W		XX: Others	SA: SC/APC
		X: Other			LA: LC/APC
					XX: Others

**Part Number Example:** FBTWDM-102-9864-2-25-10-00

**Description:** 1x2 single mode 980/1064 WDM, 2W, 1060-XP fiber, bare fiber, 1.0m length fiber pigtails, without connectors at all ports.

### Ordering Information for Custom Parts

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