

## 780nm Single Mode Dual Fiber Collimator

### Key Features

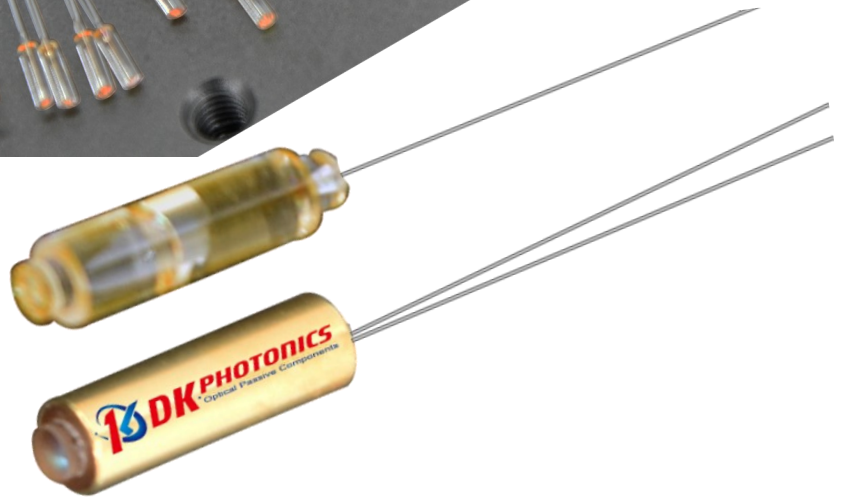
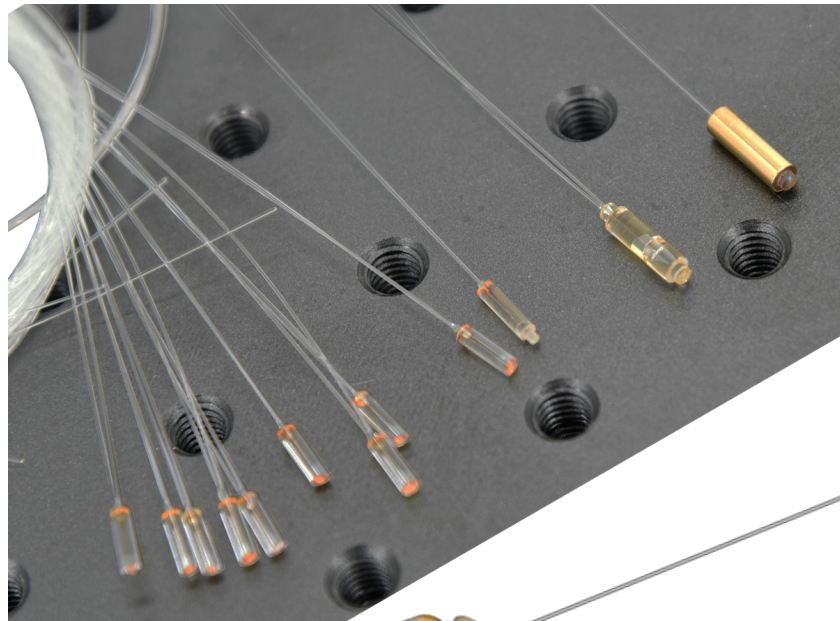
- Low Insertion Loss
- Compact Design
- Wide Operating Wavelength
- High Reliability and Stability

The SM Dual Fiber Collimator is the basic element for in-line fiber optics components, such as Circulators and WDM. It has low PDL, low insertion and high return loss. The unique processing and high-quality AR coating also enable this collimator to handle high power.

If you do not see a standard Fiber Collimator that meets your needs, we welcome the opportunity to review your desired specification and quote a custom Fiber Collimator. Requests for custom fiber pigtailed, different wavelengths and handling power of operation or other specific needs will be readily addressed.

### Applications

- Circulators
- WDM
- Coupler
- Signal Processing



## For more Info

Please contact us at:

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Fax: +86-755-26746512

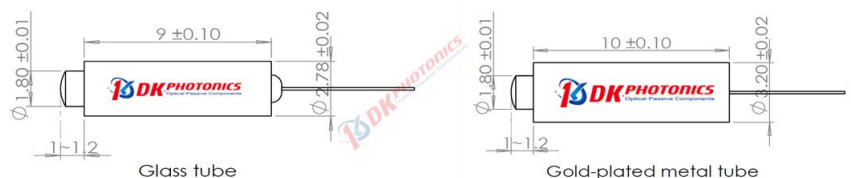
E-mail: [sales@dkphotonics.com](mailto:sales@dkphotonics.com)

<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.

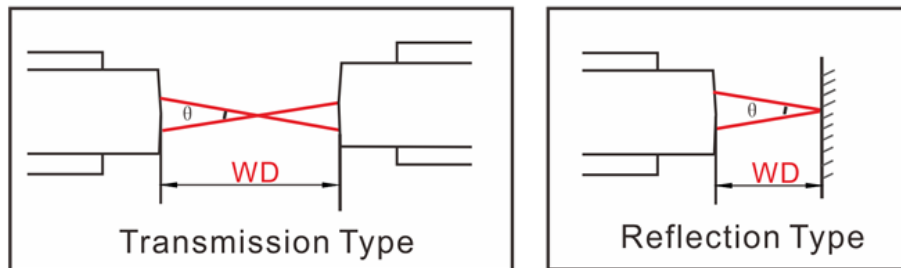
## 780nm Single Mode Dual Fiber Collimator

### Performance Specifications

Parameter	Unit	Value			
Operating wavelength ( $\lambda_c$ )	nm	780,850			
Operating wavelength range	nm	$\pm 50$			
Working Type	-	Transmission		Reflection	
Working Distance	mm	5~10	11~30	31~50	0mm for G-lens, 2.4mm for C-lens
Max. Insertion Loss ( $\lambda_c$ )	dB	0.30	0.40	0.50	0.30
Max. PDL	dB	0.15			
Min. Return Loss	dB	55			
Fiber Type	-	780-HP			
Max. Power Handling	W	0.5, 1, 3, 5, 10			
Operating temperature	$^{\circ}\text{C}$	-5~+70			
Storage temperature	$^{\circ}\text{C}$	-40~+85			
Dimension	mm	$\Phi 3.2 \times 10$ (Metal holder) or $\Phi 2.78 \times 9.0$ (Glass tube)			

- The specifications are w/o connector. Other lens sizes can also be customized according to requirements.
- For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower. Power transmits through the connector less than 2W.
- When purchasing the collimator, please inform us whether it is used alone or in pairing. If paired, we will pack and ship the paired ones together.

### Working Type



### Order information P/N: COLL-D-①-②-③-④-⑤-⑥-⑦-⑧-⑨ (D: Dual fiber)

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 250 $\mu\text{m}$  bare fiber pigtail.

①	②	③	④	⑤	⑥	⑦	⑧	⑨
Wavelength	Working Distance	Power Handling	Working Type	Lens Type	Pigtails Diameter	Fiber Length	Connectors	Dimension
78:780nm	0: 0mm	L:<0.5W	T:Transmission	C: C-lens	25:250 $\mu\text{m}$	10:1.0m	00: None	3.2x10
85:850nm	5: 5mm	1:1W	R:Reflection	G: G-lens	bare fiber	13:1.3m	FP: FC/PC	2.78x9
XX: Others	10:10mm	3:3W 5:5W			90:900 $\mu\text{m}$ Loose Fiber	15:1.5m 20:2.0m	FA: FC/APC SA: SC/APC LA: LC/APC XX: Others	

**Part Number Example:** COLL-D-78-5-L-T-C-25-10-00-2.78X9

**Description:** 780nm SM Dual Fiber Collimator, 5mm working distance ,0.5W hand power, Transmission type, C lens, 780-HP fiber, bare fiber, 1.0m fiber length, and no connector, package dimension:2.78x9mm. Used in pairing.

### Ordering Information for Custom Parts

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