



Key Features

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

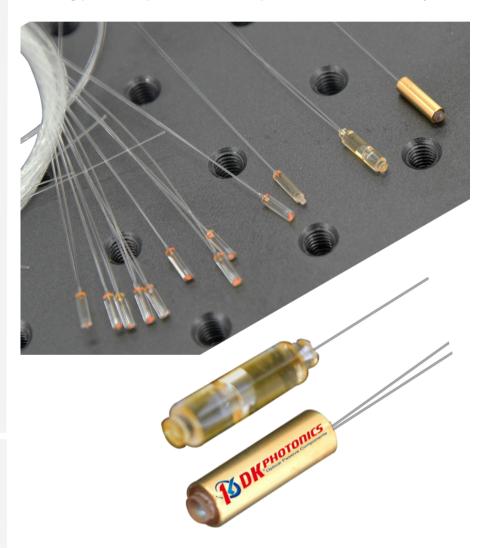
Applications

- Isolators
- Circulators
- Switches
- WDM
- Signal Processing

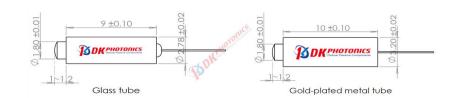
850nm Single Mode Single Fiber Collimator

The SM Single Mode Fiber Collimator is the basic element for in-line fiber optics components, such as optical isolator and optical WDM. It has high 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 pigtails, different wavelengths and handling power of operation or other specific needs will be readily addressed.



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.

For more Info

Please contact us at:

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Add.:

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850nm Single Mode Single Fiber Collimator

Performance Specifications

Parameter	Unit	Value				
Туре	-	Standard Long working distance				
Operating wavelength (λc)	nm	780,850				
Operating wavelength range	nm	±30				
Max. Working Distance	mm	20 50~100(C-lens)				
Grade	-	Р	A	А		
Max. Insertion Loss (λc)	dB	0.25	0.30	0.35		
Waist Beam Diameter	mm	~0.35 ~0.45		~0.45		
Min. Return Loss	dB	60	55	55		
Fiber Type	-	780-HP				
Max. Power Handling	W	0.5, 1, 3, 5, 10				
Operating temperature	C°	-5~+70				
Storage temperature	C°	-40~+85				
Dimension	mm	Φ2.78XI9(Glass tube)				
	mm	Φ3.2xL10(Metal), Φ1.4xL6(Metal)				

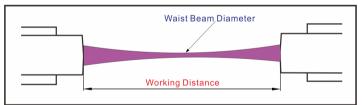
1. The specifications are w/o connector. Other lens sizes can also be customized according to requirements.

2. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower. Power transmits through the connector less than 2W.

Measured at the alignment wavelength at 1/2 working distance.

3. Waist Beam Diameter is measured at the alignment wavelength at 1/2 working distance.

4. 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.



Order information P/N: COLL-S-①-②-③-④-⑤-⑦-⑧ (S: single 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 250µm bare fiber pigtail.

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

Part Number Example: COLL-S-85-5-L-C-25-10-00-2.78X9

Description: 850nm SM Single Fiber Collimator, 5mm working distance ,0.5W handling power, C lens, 780-HP fiber, bare fiber, 1.0m fiber length, and no connector, package dimension:2.78x9mm. Used alone.

Ordering Information for Custom Parts

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