



#### **Key Features**

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

### **Applications**

- Isolators
- Circulators
- **Switches**
- **WDM**

- Signal Processing

# For more Info

#### Please contact us at:

Tel: +86-755-23736280

Fax: +86-755-26746512

E-mail: sales@dkphotonics.com https://www.dkphotonics.com

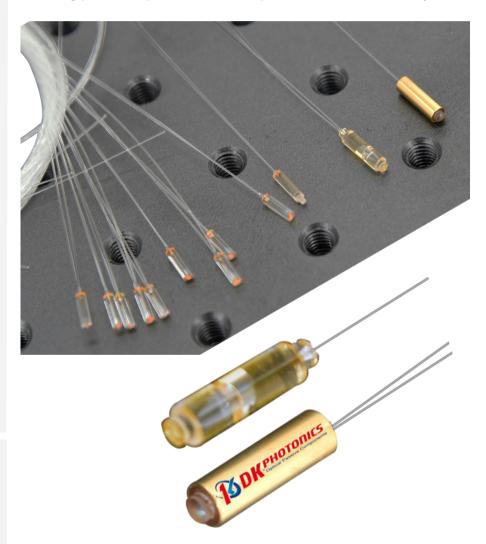
Add.:

4F, Bldg. 18, Qinghu Industrial Park, Dahe Road, Longhua Dis., Shenzhen, China 518109

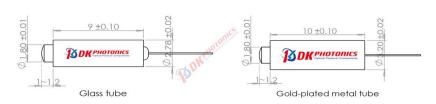
#### 1310nm Single Mode Single Fiber Collimator

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



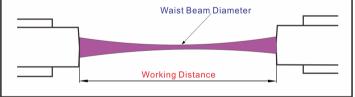


#### 1310nm Single Mode Single Fiber Collimator

#### **Performance Specifications**

Parameter	Unit	Value					
Туре	-	Standard Long working distance					
Operating wavelength (λc)	nm	1310,1550					
Operating wavelength range	nm	±30					
Max. Working Distance	mm	2	50~100(C-lens)				
Grade	-	Р	Α	Α			
Max. Insertion Loss (λc)	dB	0.20	0.25	0.30			
Waist Beam Diameter	mm	~0.35 ~0.45					
Min. Return Loss	dB	60	55	55			
Fiber Type	-	SMF-28e					
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	Ф3.2xL10(Metal), Ф1.4xL6(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-1-2-3-4-5-6-7-8 (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	7	8
Wavelength	Working Distance	Power Handling	Lens Type	Pigtails Diameter	Fiber Length	Connectors	Dimension
13:1310nm 15:1550nm XX: Others	0: 0mm 5: 5mm 10:10mm	L:<0.5W 1:1W 3:3W 5:5W	C: C-lens G: G-lens	25:250µm bare fiber 90:900µm Loose Fiber XX: Others	10:1.0m 13:1.3m 15:1.5m 20:2.0m XX: Others	00: None FP: FC/PC FA: FC/APC SA: SC/APC LA: LC/APC XX: Others	3.2x10 2.78x9

Part Number Example: COLL-S-13-5-L-C-25-10-00-2.78X9

**Description:** 1310nm SM Single Fiber Collimator, 5mm working distance ,0.5W handling power, C lens, SMF-28e 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.