

Feature

- Low Insertion Loss
- High Return Loss
- Wide Operating Wavelength, Working Distance & Temperature Range
- Compact Footprint
- Exceptional Reliability and Stability

Applications

- Fiber Optics Components and Modules
- Free-space Optics Integration
- Test & Measurement

Product Description

Primanex collimator can provide a low cost solution with excellent performances including low insertion loss, high return loss. In addition, Primanex can design various parameters by customer's requirement such as beam spot diameter, working distance, dimension etc.

Specifications

Item	Unit	Parameters	Note
Working Wavelength	nm	1310/1550	Other wavelength optional
Operating Band Width	nm	1260~1620	Wider operating band width available upon request
Lens Type	N/A	C-lens / G-lens	
Fiber Type	N/A	SMF-28e+	Other fiber is optional
Working Distance	mm	5.5 +/- 0.5 (Standard)	Customizable
Insertion Loss	dB	0.15 (Typ.); 0.20 (Max.)	For a pair of collimators spaced at working distance
Return Loss	dB	60	
Beam Spot Diameter	mm	0.35 (Typ.); 0.50 (Max.)	2ω diameter (at $1/e^2$ intensity) measured at beam waist; Customizable
Maximum Optical Power	mW	500	High-power available upon request
Storage Temperature	$^{\circ}\text{C}$	-40 ~ 85	
Operating Temperature	$^{\circ}\text{C}$	-5 ~ 70	
Dimension (ϕ -D x A)	mm	$\phi 3.20 \times 9$ (with metal tube) $\phi 2.78 \times 9$ (with glass tube) $\phi 1.65 \times 6$ (with glass tube) $\phi 1.38 \times 8$ (with glass tube)	Customizable
Lens Chip (size B)	mm	0~1.0	Customizable
Pigtail Chip (size C)	mm	0~1.0	Customizable

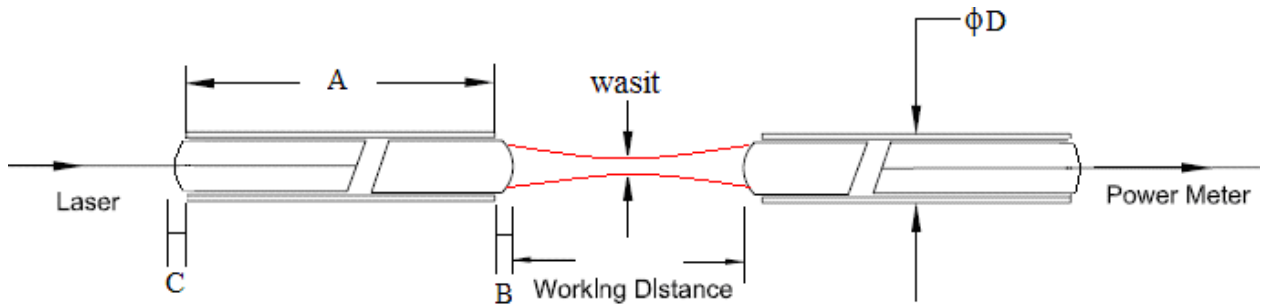
*. All the specifications are based on the devices without connectors, and guaranteed over wavelength, polarization and temperature.

** Specifications are subject to change without notice.

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Dimensions and Beam Illustration



Ordering Information (Example: PFCC1-11C11110)

PFCC 1 —

<p>Central Wavelength</p> <p>1. 1310 nm</p> <p>2. 1550 nm</p> <p>3. Others</p> <hr/> <p>Dimension</p> <p>1. Φ 3.20 x 9 mm</p> <p>2. Φ 2.78 x 9 mm</p> <p>3. Φ 1.65 x 6 mm</p> <p>4. Others</p>	<p>Lens Type</p> <p>C. C-lens</p> <p>G. G-lens</p> <hr/> <p>Working Distance</p> <p>1. Standard</p> <p>2. Others</p>	<p>Fiber Type</p> <p>1. G.652.D</p> <p>2. G.657.A1</p> <p>3. G.657.A2</p> <p>4. Others</p> <hr/> <p>Fiber Tuber</p> <p>1. 250μm fiber</p> <p>2. 900μm fiber</p> <p>3. Others</p>	<p>Fiber Length</p> <p>1. 1.5 +/- 0.1 m</p> <p>2. 1.8 +/- 0.1 m</p> <p>3. 3.3 +/- 0.1 m</p> <p>3. Others</p> <hr/> <p>Connector Type</p> <p>0. No Connector</p> <p>1. FC/UPC</p> <p>2. FC/APC</p> <p>3. SC/UPC</p> <p>4. SC/APC</p> <p>5. LC/PC</p> <p>6. MU/PC</p> <p>7. Others</p>
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