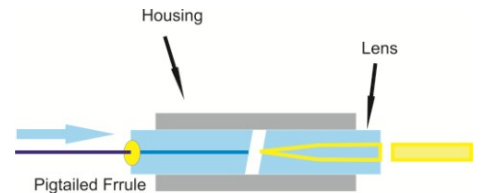




Polarization Maintaining (PM) Fiber Optical Collimator

Polarization maintaining (PM) fiber optical collimator is used to launch a beam of light from an optical fiber into free space and then to capture that light and refocus it into the same or another fiber. By using polarization maintaining fiber (PMF), the PM fiber collimator can maintain a well-defined state of polarization (SOP) of the light signals. They meet most demands with good performance over a wide temperature range. PM fiber optical collimators feature epoxy-free in the light path, low loss, high extinction ratio, high reliability qualification complying.



Features

- Low Insertion Loss
- High Extinction Ratio (ER)
- High Return Loss

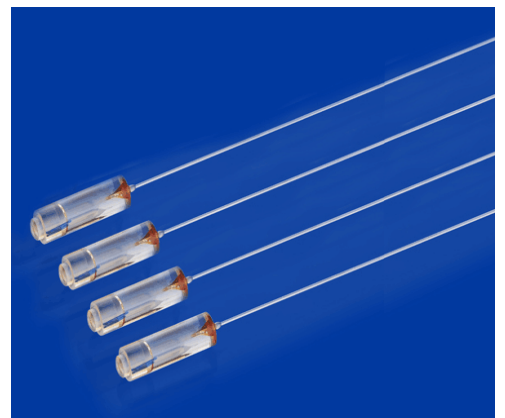
Applications

- Fiber-Optic Collimation and Focusing
- Essential Elements for PM Optical Devices
- Optical Communications Systems
- Other PM Fiber Optical Applications

Specifications

Parameter

Operating Wavelength	1064	1310, 1550
Bandwidth	±30	±50
Insertion Loss at 23°C	≤0.3	≤0.25
Extinction Ratio at 23°C	≥20, ≥25, ≥30, ≥35	
Fiber Type	Panda PM Fibers	
Return Loss (dB)	≥55 (UPC), ≥60 (APC)	
Operating Temperature (°C)	-5 to +70; Others upon request	
Storage Temperature (°C)	-40 to +85	
Package Dimensions (mm)	Φ3.20*L10 (metal housing, Φ1.8mm lens)	
	Φ2.78*L9 (glass housing, Φ1.8mm lens)	
	Φ1.80*L7 (metal housing, Φ1.0mm lens)	
	Φ1.40*L7 (glass housing, Φ1.0mm lens)	

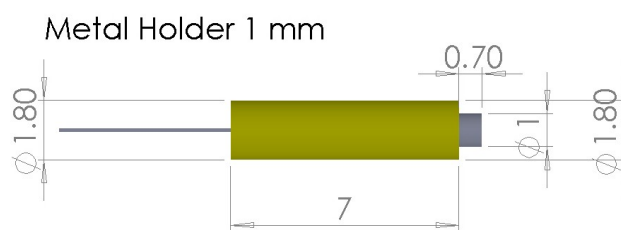
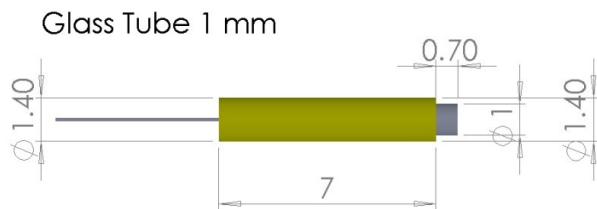


Package Dimensions of the PM Fiber Collimator

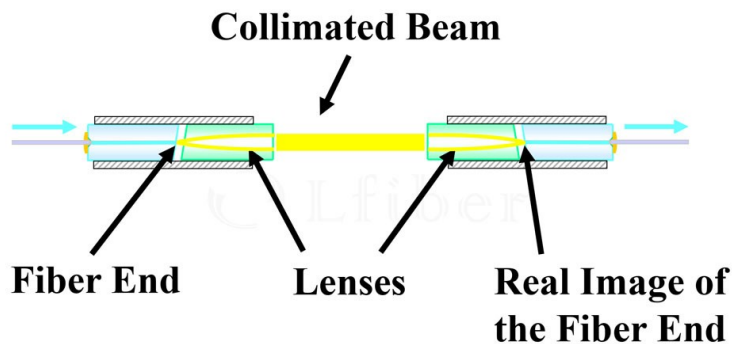
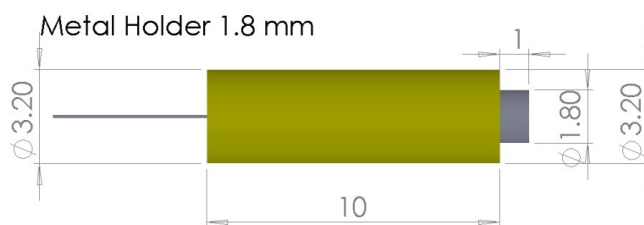
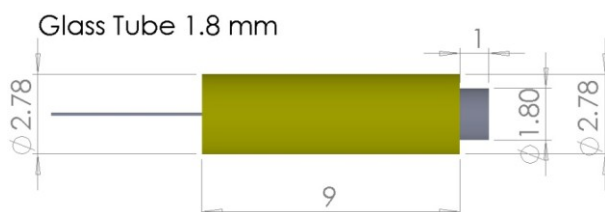
Lens Glass Tube

Metal holder

1.0 mm



1.8 mm



Order Information

P/N: PFC - ① - ② - ③ - ④ - ⑤ - ⑥ - ⑦ - ⑧

①	②	③	④	⑤	⑥	⑦	⑧
Package Dimensions	Operating Wavelength	Extinction Ratio	Working Distance	Fiber Type	Fiber Diameter	Fiber Length	Connector
G1:Φ1.4 Glass	98:980nm	A: ≥20	5 mm	P: Panda	2:250μ	0:0.8 m	00: bare fiber
G2:Φ2.78Glass	106:1064nm	B: ≥25	10 mm	E: Elliptical	9:900μ	1:1.0 m	FC:FC/PC
M1:Φ1.8 Metal	13:1310nm	C: ≥30	20 mm	B: Bow-Tie	2:2.0mm	2:2 m	FA:FC/APC
M2:Φ3.2 Metal	15:1550nm	D: ≥35	X:XX		3:3.0mm	3:3 m	SA:SC/APC
	X:XX					X:XX	LP:LC/PC
							LA:LC/APC

Note1: The PM fiber and the connector key are aligned slow axis.

Note2: IL, RL and ER Values specified are without connector loss.

Note3: Specifications are subject to change without notice.

MAXER PHOTONICS LTD.

180 West Beaver Creek Road, Richmond Hill, Ontario, Canada, L4B 1B4

www.maxerphotonics.com

sales@maxerphotonics.com