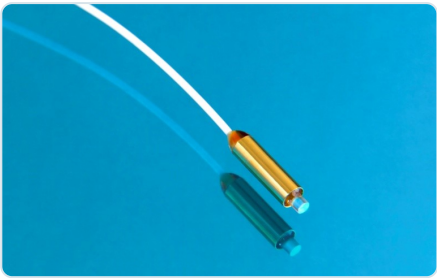


Polarization Maintaining (PM) Fiber Optical Collimator

Epoxy-free PM fiber collimator with low insertion loss and high extinction ratio for stable free-space beam launching and coupling



PRODUCT OVERVIEW

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.

KEY FEATURES

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

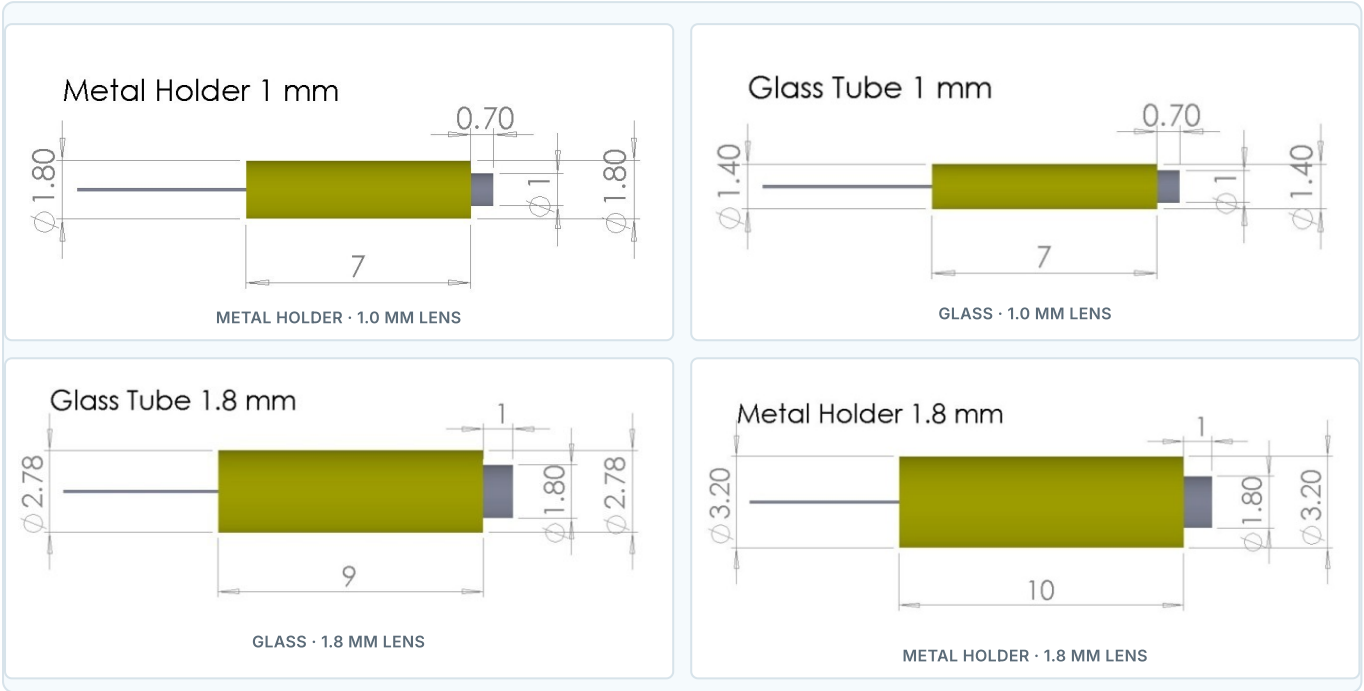
APPLICATIONS

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

OPTICAL & GENERAL SPECIFICATIONS

PARAMETER	VALUE A	VALUE B
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, Φ1.8mm lens) Φ2.78*L9 (glass, Φ1.8mm lens) Φ1.80*L7 (metal, Φ1.0mm lens) Φ1.40*L7 (glass, Φ1.0mm lens)	

PACKAGE DIMENSIONS



Package Dimensions of the PM Fiber Collimator — all dimensions in millimeters (mm)

ORDERING INFORMATION

PFC / 1 - 2 - 3 - 4 - 5 - 6 - 7

1 PACKAGE DIMENSIONS	2 OPERATING WAVELENGTH	3 EXTINCTION RATIO	4 WORKING DISTANCE	5 FIBER TYPE	6 FIBER DIAMETER	7 FIBER LENGTH	8 CONNECTOR
G1:Φ1.4 Glass	98:980nm	A: ≥20	5 mm	P: Panda	2 : 250μm	1 : 0.8 m	00 : Bare Fiber
G2:Φ2.78 Glass	106:1064nm	B: ≥25	10 mm	E: Elliptical	9 : 900μm	2 : 1.0 m	FA : FC/APC
M1:Φ1.8 Metal	13:1310nm	C: ≥30	20 mm	B: Bow-Tie	20:2.0mm	X : XX	SA : SC/APC
M2:Φ3.2 Metal	15:1550nm	D: ≥35	X:XX	—	—	—	LA:LC/APC
—	X:XX	—	—	—	—	—	—

Note 1: The PM fiber and the connector key are aligned slow axis. Note 2: IL, RL and ER values specified are without connector loss. Note 3: Specifications are subject to change without notice.