

Long Working Distance Single Fiber PM Collimator

FEATURES

- High Return Loss
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

APPLICATIONS

- Optical Isolator
- Optical Circulator
- Optical Components
- WDM Assembly
- Laboratory R&D



SPECIFICATIONS

Parameters	Unit	Single Fiber				
Center Wavelength	nm	1310, 1480, 1550, 1590, 1625, 1650				
Bandwidth	nm	+/-20				
Working Distance (WD)	mm	50~100	101~250	251~500	501~800	
Insertion Loss	Typ.	dB	0.3	0.4	0.5	0.6
	Max.	dB	0.4	0.5	0.6	0.8
Nominal Beam Diameter	mm	~0.45	~0.75	~0.95	~1.2	
Return Loss	dB	≥50				
Extinction Ratio	dB	≥20				
Lens Type	-	Long Distance C-Lens or Aspherical-Lens				
Work Mode	-	Free Space Output or Space Doublet				
Fiber Type	-	PM1310/1550 Panda Fiber, 10/125um PMDC Fiber (O) 12/130um PMDC Fiber (T), 20/130um PMDC Fiber (Q) 25/250um PMDC Fiber (R), 25/300um PMDC Fiber (G)				
Fiber Sleeve	-	250um Bare Fiber or 900um Loose Tube				
Fiber Length	m	1.0, 1.5 or customer specify				
Max. Optical Power (CW)	W	1, 2, 3, 5, 10, 15, 20, 40, 50, 60, 80, 100				
Operating Temperature	°C	0~70				
Storage Temperature	°C	-40~85				
Package Dimension	mm	Φ3.2xL11	Φ3.2xL14	Φ3.8xL16	Φ3.8xL19	

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
 2. To add connectors, IL is 0.3dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
 3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 4. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.
 5. Package size may be different for different lens and optical power.

ORDERING INFORMATION (PN)

FPCO-NNNN	-C	NNN	-LM	C	C	-HP	NN	-	C	C	NN	-CC/CCC
Wavelength	Type	WD	Lens	Work Mode	Optical Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector			
1310-1310nm	L=Single Fiber	50-50mm	C=C-lens	F=Free Space Output	1-1W	2=PM1310/1550 Fiber	B=Bare Fiber	05=0.5m	N=None			
1550-1550nm		200-200mm	A=Aspherical Lens	D=Space Doublet	2-2W	0=10/125 PMDC Fiber	L=Loose Tube	10=1.0m	SC/PC=SC/PC Connector			
1590-1590nm		600-600mm			5-5W	T=12/130 PMDC Fiber		15=1.5m	FC/APC=FC/APC Connector			
1650-1650nm		800-800mm			10=10W	R=25/250 PMDC Fiber		20=2.0m	SC/UPC=SC/UPC Connector			