

Long Working Distance High Power Single Fiber 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
Normnial Beam Diameter	mm	~0.45	~0.75	~0.95	~1.2	
Return Loss	dB	≥50				
Lens Type	-	Long Distance C-Lens or Aspherical-Lens				
Work Mode	-	Free Space Output or Space Doublet				
Fiber Type	-	SMF-28 Fiber or 10/130um DC Fiber (O) 12/130um DC Fiber (T) or 20/130um DC Fiber (Q) 25/250um DC Fiber (R) or 25/300um DC 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, 20, 30, 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.
 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)

FCOL-NNNN	- C	NNN	-LMC	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	E=10/130 DC Fiber	B=Bare Fiber	05=0.5m	N= None
1550- 1550nm		200- 200mm	A=Aspherical Lens	D=Space Doublet	2- 2W	T=12/130 DC Fiber	L=Loose Tube	10=1.0m	SC/PC= SC/PC Connector
1590-1590nm		600- 600mm			5- 5W	R=25/250 DC Fiber		15=1.5m	FC/APC=FC/APC Connector
1650-1650nm		800- 800mm			10-10W	Blank for SMF-28 Fiber		20=2.0m	LC/UFC=LC/UFC Connector