

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, 1310&1550 1590, 1625, 1650
Bandwidth	nm	+/-20
Working Distance (WD)	mm	5, 10, 15, 20, 30, 50
Insertion Loss (WD=5mm)	Typ.	0.25
	Max.	0.35
Return Loss	dB	≥50
Lens Type	-	C-Lens, GRIN Lens or Aspherical-Lens
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
Operating Temperature	°C	0~70
Storage Temperature	°C	-40~85
Package Dimension	mm	∅3.2x ^L 10 for Metal Tube ∅2.78x ^L 9 for Glass Tube

- 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	-S	NNN	-C	C	C	-HP	NN	-(C)	C	NN	-CC/CCC
Wavelength	WD	Package	Housing	Lens Type	Optical Power	Fiber Type	Fiber Sleeve	Fiber Length	Connector		
1310-1310nm	005-5mm	S-Standard	M-Metal	G-Grin Lens	1-1W	E-10/130 DC Fiber	B-Bare Fiber	05-0.5m	N=None		
1550-1550nm	010-10mm		G-Glass	C-C-lens	2-2W	T-12/130 DC Fiber	L-Loose Tube	10-1.0m	SC/PC=SC/PC Connector		
1315-1310&1550nm	020-20mm			A-Aspherical	5-5W	R-25/250 DC Fiber		15-1.5m	FC/APC=FC/APC Connector		
1650-1650nm	050-50mm				10-10W	Blank for SMF-28 Fiber		20-2.0m	LC/UFC=LC/UFC Connector		