

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	Dual 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	0.30
	Max.	0.35	0.40
Return Loss	dB	≥60	≥55
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	
Maximum Optical Power (CW)	mW	300	
Operating Temperature	°C	0~70	
Storage Temperature	°C	-40~85	
Package Dimension	Standard	mm	φ3.2x ^L 10 for Metal Tube φ2.78x ^L 9 for Glass Tube
	Mini-size	mm	φ1.8x ^L 10 for Metal Tube φ1.4x ^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. 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.
 4. Package size may be different for different lens and optical power.

ORDERING INFORMATION (PN)

FCOL - NNNN	-	C	NNN	-	C	C	-	(C)	C	NN	-	CC/CCC
<i>Wavelength</i>		<i>Type</i>	<i>WD</i>		<i>Package</i>	<i>Housing</i>		<i>Lens Type</i>	<i>Fiber Type</i>	<i>Fiber Sleeve</i>	<i>Fiber Length</i>	<i>Connector</i>
1310-1310nm		S= Single Fiber	005= 5mm		S= Standard	M= Metal		G=Grin Lens	E=10/130 DC Fiber	B=Bare Fiber	05=0.5m	N= None
1550-1550nm		D= Dual Fiber	010=10mm		M= Mini-size	G= Glass		C=C-lens	T=12/130 DC Fiber	L=Loose Tube	10=1.0m	SC/PC= SC/PC Connector
1315= 1310&1550nm			020= 20mm					A=Aspherical Lens	R=25/250 DC Fiber		15=1.5m	FC/APC=FC/APC Connector
1650=1650nm			050= 50mm						Blank for SMF-28 Fiber		20=2.0m	SC/UPC=SC/UPC Connector