

## 980~1160nm 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
Working Wavelength	nm	975, 980, 990, 1000 1020, 1030, 1040, 1053, 1064, 1070, 1080, 1092, 1103, 1120, 1150	
Bandwidth	nm	+/-10	
Working Distance (WD)	mm	5, 10, 15, 20, 30, 50	
Insertion Loss (WD=5mm)	Typ.	0.35	0.45
	Max.	0.55	0.65
Return Loss	dB	≥50	
Lens Type	-	C-Lens, GRIN Lens or Aspherical-Lens	
Fiber Type	-	HI1060 Fiber or 10/125um SC Fiber (E) 10/125um DC Fiber (O), 15/130um DC Fiber (W) 20/130um DC Fiber (Q) or 25/250um DC Fiber (R)	
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	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	mm	Φ3.2x <sup>L</sup> 10 for Metal Tube	
		Φ2.78x <sup>L</sup> 9 for Glass Tube	

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
  2. To add connectors, IL is 0.5dB 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)

<b>FCOL-</b>	<b>NNNN</b>	<b>- C</b>	<b>NNN</b>	<b>- C</b>	<b>C</b>	<b>C</b>	<b>-(C)</b>	<b>C</b>	<b>NN</b>	<b>- CC/CCC</b>
<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>	
980= 980nm	S= Single Fiber	005= 5mm	S= Standard	M= Metal	G=Grin Lens	E=10/125 SC Fiber	B=Bare Fiber	05=0.5m	N= None	
1030= 1030nm	D= Dual Fiber	010=10mm		G= Glass	C=C-lens	Q=20/130 DC Fiber	L=Loose Tube	10=1.0m	SC/PC= SC/PC Connector	
1064= 1064nm		020= 20mm			A=Aspherical Lens	R=25/250 DC Fiber		15=1.5m	FC/APC=FC/APC Connector	
1120=1120nm		050= 050mm				Blank for HI1060 Fiber		20=2.0m	LC/UPC=LC/UPC Connector	