

The optical fiber collimator (fiber collimator) is made from the precise positioning of the tail fiber and the lens. It can convert the transmitted light in the optical fiber into collimating light (parallel light), or parallel the outside world. (approximately parallel) light is coupled to a single-mode fiber. Through the lens, the optical fiber collimator can convert the beam with larger divergence angle (small beam waist) into one with smaller divergence angle (large beam waist). Thus, it is coupled into other optical devices with lower loss.

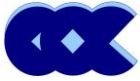
Applications

- EDFA
- Pump Laser
- Q-Switched Laser

Features

- Low Insertion Loss
- High Return Loss
- High Reliability & Stability





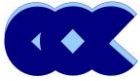
Specifications

Parameters	Unit	Values
Type	/	Single Fiber Type
Center Wavelength	nm	1550, 1064 or Specify
Working Distance	m	0.5, 1, or Specify
Beam Diameter @ 1/e ²	mm	0.5, 1, 2 or Specify
Beam Divergence (Far field)	mrad	<2.5
Beam Pointing Error	deg	<1.0
Beam Roundness	%	>90
Typ. Insertion Loss (Free space output)	dB	0.2
Max. Insertion Loss (Free space output)	dB	0.3
Min. Return Loss	dB	50
Max. Average Optical Power	W	0.5, 1, 5, 10, 20 or Specify
Max. Peak Power for ns Pulse	kW	10 or Specify
Max. Tensile Load	N	5
Operating temperature	°C	+10 ~ +50
Storage Temperature	°C	0 ~ +60

*Above specifications are for device without connector.

*For device with connector, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.

*The default connector key is aligned to slow axis.



Ordering Information: HPMCOLL -A-B-C-D-E-F-G-H-I-J

A	B	C	D	E	F	G	H	I	J
Wavelength	Beam Diameter	Working distance	Package Dimension	Fiber Type	Pigtail Type	Connector Type	Fiber Length	Average Power	Peak Power
1550=1550nm	0.5=0.5mm	001=1cm	0=φ3.2x10mm	001=PM1550	0=bare	0=FC/UPC	0.75=0.75m	01=1W	00=Continuous
1064=1064nm	1.0=1mm	010=10cm	1=φ12x53mm	003=PM980	fiber	1=FC/APC	1.0=1m	05=5W	Wave
980=980nm	2.5=2.5mm	050=50cm	C=Customized	004=HI1060	1=900μm	2=SC/UPC	S=Specify	10=10W	10=10Kw
.....	S=Specify	100=100cm SSS=Specify		SSS=Specify	loose tube 2=2mm cable 3=3mm cable	3=SC/APC N=None S=Specify		SS=Specify	20=20kW

Part No. Example: HPMCOLL-1550-0.5-001-C-001-0-N-0.75-0510

Description: High power polarization maintaining fiber collimator: 1550nm, beam diameter 0.5mm, working distance 1cm, package dimension customized, PM1550 fiber, bare fiber, no connector, 0.75m, Average Power 5W, Peak power 10kW.

For Custom Parts, please provide detailed description for your requirement.