



LEAD Fiber Optics PRODUCT CATALOGUE

FIBER COLLIMATOR

LFO Fiber Collimator Series



Fiber Collimator

The fiber collimator provides collimated light beam to or from the optic fiber. It is widely used in almost all micro optic components. LFO Fiber Collimators are ultra reliable devices featuring low insertion loss, low back reflection, small beam divergence, and excellent optical properties over wide range of temperature and wavelength applications.

Fiber Collimator

Features

- Low insertion Loss
- Low back reflection
- Small Beam divergence
- Miniature in size
- Light weight
- Singlemode or multimode application
- Environmentally stable

Applications

- Optical devices
- Optical switching
- Fiber sensing
- Testing equipment



Specifications

ITEM	VALUES		
	Singlemode	Multimode	
Mode Type	Singlemode	Multimode	
Wavelength, nm	1310 or 1550	850	1310
Spectral Width, nm	$\geq \pm 30$		
Typical Insertion Loss, dB	0.2	0.6	0.8
Maximal Insertion Loss, dB	0.3	0.8	1.0
Return Loss, dB	≥ 55	---	
Beam Divergence, deg.	≤ 0.25	≤ 1	
Acceptance angel, deg.	≤ 0.15	≤ 1	
Beam offset angle, deg.	≤ 1		
Beam Diameter, mm	≤ 0.5	≤ 1	
Working Distance, cm	0.5~1.5		
Operation Temperature, °C	-20°C ~ 60°C		

Fiber Collimator Ordering information

FC

XX

XX

XX

X

XX

XXX(cm)

Connector
 11-ST
 21-FC/PC
 22-FC/APC
 31-SC/PC
 32-SC/APC
 41-LC/PC
 51-MU/PC
 00-None
 XX-Others

Pigtail length
 050- 50cm
 100- 100cm
 150- 150cm
 200- 200cm
 XXX-Others

Fiber type
 1-Singlemode fiber
 2-corning 50/125um
 3-corning 62.5/125um
 X-Others

Wavelength
 31-1310 nm
 55-1550 nm
 85-850 nm (Multimode only)
 XX-Other

Package
 01- w / metal tube
 02- w / o metal tube

Cable type
 01-coated fiber(250um)
 02-loose tube
 XX-Others

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