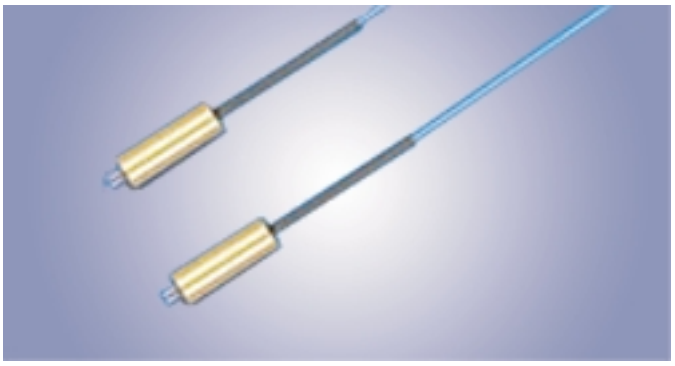
Opto-Link
Corporation Ltd

Fiber Optic Collimators

Fiber Optic Collimator is designed to focus the light exiting a fiber to a specific beam diameter or spot size. It can be used in various active and passive optical components including fiber optic sensors, Erbium-doped fiber amplifiers (EDFAs), dense wavelength division multiplexer (DWDM), circulators and isolators.



Types

- Single-Mode Fiber Collimators
- Polarization Maintaining Fiber Collimators

Applications

- EDFAs, DWDM
- Fiber Optic Sensors
- Photonic Switches
- Isolators
- Circulators
- Couplers
- Test & Measurement System

Features

- Low Insertion Loss
- Low Polarization Dependence Loss
- High Extinction Ratio (for PM Collimators)
- Excellent Return Loss
- Wide Bandwidth
- Long Working Distance
- Environmentally Stable

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SPECIFICATIONS

Single Mode Fiber Collimators (532nm to 980nm)

Parameter	Values							Units
Wavelength	532 to 980							nm
Beam Size#	0.82	2.0	3.5	4-10*	6	14	450um	mm
Far Field Divergence (1310nm)	1	0.5	0.3	--	--	--	2.5	mrad
Focal Length	4.5 (NA=0.42)	11 (NA=0.25)	19 (NA=0.15)	17 (NA=0.3)	35 (NA=0.38)	75 (NA=0.32)	1.9 (NA=0.46)	mm
Lens Type	Asphere (AR)			PC(AR)	Achromatic doublet (AR coated)		GRIN(AR)	--
Insertion Loss (SM pairing)	<0.5dB(for 1310 & 1550nm only)			--	<1dB (for 1310 & 1550nm only)		--	dB
Max Pairing Distance	0.25	1	4	--	5	8	--	m
Return Loss (SM Fiber)	>55							dB
Operating Temperature	-20 to +65							°C
Storage Temperature	-40 to +85							°C
Package Materials	Stainless steel			Anodized AL	Anodized AL		Stainless	--
Fiber choices	Singlemode or PM			Multimode	Singlemode, Multimode, or PM			--
Fiber Jackets	900um tight buffer or loose tubing				900um tight buffer w/3 mm jacket		900um	--
Connector Type	Please Specify							--
Fiber focal distance tuning range					+/-1	+/-0.5		mm

*Beam size based on SM fiber
1/e^2 with SM fiber

ORDERING CODES

Single Mode Fiber Collimators:

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Fiber Number	Code
Single Fiber	S

Wavelength	Code
633	633
780	078
850	085
980	098

Working Distance	Code
5mm	5
Specify	X

Fiber Diameter	Code
250 µm	25
900 µm	90

Connector Type	Code
No Connector	NC
FC/UPC	FU
SC/UPC	SU
FC/APC	FA
SC/APC	SA
Others	XX

■ Opto-Link Corporation Ltd. reserves the right to make changes to the products described herein without notice.

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