

[OEFOC]

Fiber Optic Collimators and Focusers (Wavelength from 300 to 5000 nm)

Features:

- Wide wavelength range (300 - 5000 nm)
- Standard and custom-made products
- Adjustable output beam size collimator
- Single mode, polarization maintaining fibre, multimode fibre versions
- Fibre pigtailed or receptacle type
- Fixed or adjustable versions
- One fibre, dual fibre versions
- Low insertion loss
- Aspheric lens, GRIN lens and multi-element lens
- House material: stainless steel or aluminium
- Epoxy-Free Optical Path for high power version
- Beam size up to 100 mm
- Environmentally stable
- Low cost

Applications:

- Telecommunications
- Fibre optical devices and components
- Lasers and detectors
- Instrumentation
- Biomedical
- Sensor
- Alignment and targeting



Fibre Pigtailed Collimators



SMA Type Collimator



Adjustable Collimator



High Power Collimators
Receptacle Type Collimators
Product description:

The fiber collimator and focuser can be used either to produce a collimated beam from the fiber output, or to receive an already collimated beam and focus the light into a fiber. Both standard and customized collimator products are available, fiber pigtailed or receptacle type. Both fixed and adjustable collimators and focusers can be provided to meet different customer applications.

Standard Fiber Pigtailed Collimator Specifications

Model number	Collimator Size (DxL), mm	Operation Wavelength, nm	Output Beam Size, mm	Back Reflection, dB	Max Optical Power, mW
OEFOC-201	9 x 13	350 - 1700	1.10	< 20	500
OEFOC-202	4 x 10	300 - 2600	0.55	< 20	500
OEFOC-204	4 x 10	300 - 2600	0.30	< 20	500
OEFOC-205	9 x 12	300 - 2600	0.85	< 20	500
OEFOC-207	8 x 9	300 - 2600	0.74	< 50	500
OEFOC-208	8 x 9	300 - 2600	0.66	< 50	500
OEFOC-211	8 x 19	300 - 2600	3.67	< 20	500
OEFOC-212	8 x 28	300 - 2600	0.66	< 20	500
OEFOC-214	12 x 12	300 - 2600	1.92	< 20	500
OEFOC-222	9 x 21	300 - 2600	2.36	< 50	500
OEFOC-223	2 x 10	300 - 2600	0.55	< 20	500
OEFOC-224	8 x 14	300 - 2600	2.30	< 20	500
OEFOC-225	9 x 23	300 - 2600	4.42	< 20	500
OEFOC-260	8 x 6	300 - 2600	0.36	< 20	500
OEFOC-261	8 x 7	300 - 2600	0.48	< 20	500
OEFOC-262	8 x 17.5	300 - 2600	1.13	< 20	500
OEFOC-271	42 x 80	300 - 2600	19.20	< 20	500
OEFOC-272	14 x 26	300 - 2100	4.32	< 20	500
OEFOC-273	17 x 48	300 - 2600	9.14	< 20	500
OEFOC-274	29 x 84	300 - 2600	18.00	< 20	500

Standard FC Receptacle Type Collimator Specifications

Model number	Collimator Size (DxL), mm	Operation Wavelength, nm	Output Beam Size, mm	Back Reflection, dB	Max Optical Power, mW
OEFOC-301	25.4 x 23	300 - 2600	0.3	< 20	500
OEFOC-302	25.4 x 23	300 - 2600	1.5	< 50	500
OEFOC-303	37.3 x 23	300 - 2600	0.3	< 20	500
OEFOC-304	37.3 x 23	300 - 2600	1.5	< 20	500
OEFOC-305	25.4 x 23	300 - 2600	0.86	< 20	500
OEFOC-321	25.4 x 23	300 - 2600	2.4	< 20	500
OEFOC-322	25.4 x 23	400 - 1700	2.4	< 20	500
OEFOC-323	25.4 x 23	400 - 1700	2.4	< 50	500
OEFOC-324	25.4 x 23	400 - 2300	3.0	< 50	500
OEFOC-351	25.4 x 28	300 - 2600	1.8	< 20	500
OEFOC-352	25.4 x 28	300 - 2600	2.5	< 20	500
OEFOC-353	25.4 x 28	300 - 2600	2.0	< 20	500
OEFOC-354	37.3 x 28	300 - 2600	2.9	< 20	500
OEFOC-355	37.3 x 28	300 - 2600	3.0	< 20	500
OEFOC-356	50.8x 45	300 - 2600	6.8	< 20	500

Standard SMA Receptacle Type Collimator Specifications

Model number	Collimator Size (DxL), mm	Operation Wavelength, nm	Output Beam Size, mm	Back Reflection, dB	Max Optical Power, mW
OEFOC-521	12.5 x 21	300 - 2600	2.4	< 20	500
OEFOC-522	12.5 x 23	300 - 2600	1.5	< 50	300
OEFOC-523	25.4 x 31	300 - 2600	6.0	< 20	300
OEFOC-531	25.4 x 35	300 - 2600	6.0	< 20	300
OEFOC-532	25.4 x 35	300 - 2600	6.1	< 20	300
OEFOC-533	25.4 x 35	300 - 2600	5.1	< 20	300
OEFOC-534	25.4 x 35	300 - 2600	6.8	< 20	300

High Power Collimator Specifications

Model number	Collimator Size (DxL), mm	Operation Wavelength, nm	Output Beam Size, mm	Back Reflection, dB	Max Optical Power, W
OEFOC-401	13 x 24	300 - 2600	2.4	< 20	200
OEFOC-402	37 x 50	300 - 2600	7.2	< 20	50
OEFOC-403	33 x 45	300 - 2600	5.5	< 20	50
OEFOC-404	33 x 45	300 - 2600	5.5	< 20	50
OEFOC-405	35 x 70	1060	5	< 20	200
OEFOC-406	13 x 24	980	6	< 20	200
OEFOC-407	13 x 50	1064	4.2	< 20	200
OEFOC-411	30 x 26	1064	2.8	< 20	200
OEFOC-421	22 x 57	2000	5	< 50	100
OEFOC-422	25 x 79	2000	9	< 50	100
OEFOC-423	35 x 89	2000	11	< 50	100

Adjustable Collimator Specifications

Model number	Collimator Size (DxL), mm	Operation Wavelength, nm	Output Beam Size, mm	Back Reflection, dB	Max Optical Power, mW
OEFOC-611	14 x 25	300 - 2600	1.9	< 20	500
OEFOC-621	14 x 25	300 - 2600	2.4	< 20	500
OEFOC-622	25.4 x 20	300 - 2600	2.4	< 20	500
OEFOC-623	42 x 70	300 - 2600	15.8	< 20	500
OEFOC-641	42 x 70	400 - 2300	16.5	< 20	500
OEFOC-651	42 x 70	400 - 2300	23.74	< 20	500

MID-IR Collimator Specifications

Model number	Collimator Size (DxL), mm	Operation Wavelength, nm	Output Beam Size, mm*	Back Reflection, dB	Max Optical Power, mW
OEFOC-701	18 x 30	2 - 5	7.6	< 20	500
OEFOC-702	18 x 60	2 - 5	19.0	< 20	500
OEFOC-703	18 x 90	2 - 5	30.0	< 20	500
OEFOC-704	30 x 50	2 - 5	15.2	< 20	500

OEFOC-705	30 x 60	2 - 5	19.0	< 20	500
OEFOC-706	30 x 85	2 - 5	28.5	< 20	500
OEFOC-711	10 x 10	1.8 - 5	0.7	< 20	500
OEFOC-712	12 x 15	1.8 - 5	1.5	< 20	500
OEFOC-713	16 x 20	1.8 - 5	2.3	< 20	500
OEFOC-721	30 x 45	3 - 5	9.5	< 20	500
OEFOC-722	30 x 50	3 - 5	11.4	< 20	500
OEFOC-723	30 x 55	3 - 5	13.3	< 20	500
OEFOC-724	30 x 60	3 - 5	15.2	< 20	500
OEFOC-724	30 x 70	3 - 5	19.0	< 20	500
OEFOC-726	30 x 90	3 - 5	26.6	< 20	500
OEFOC-731	18 x 25	2 - 5	5.7	< 20	500
OEFOC-732	18 x 30	2 - 5	7.6	< 20	500
OEFOC-733	18 x 50	2 - 5	15.2	< 20	500
OEFOC-734	30 x 50	2 - 5	11.4	< 20	500
OEFOC-735	30 x 60	2 - 5	19.0	< 20	500
OEFOC-736	30 x 85	2 - 5	28.5	< 20	500

* Output beam size estimated for SM-ZBLAN/Chalcogenide fiber with NA=0.19.

Notes:

Working distance: custom made

Fiber type: SM, MM, PM, DCF

Operation temperature: -20 to 60°C

Storage temperature: -45 to 85°C

Output beam size estimated for a single mode fiber with NA=0.12.

Ordering number:

OEFOC-NNN-WL-WD-P:	
where:	NNN: Model Number WL: Wavelength (nm) WD: Working Distance (mm) P: Power handling (mW)
Example:	OEFOC-407-1060-200-100