

[OEFOC]

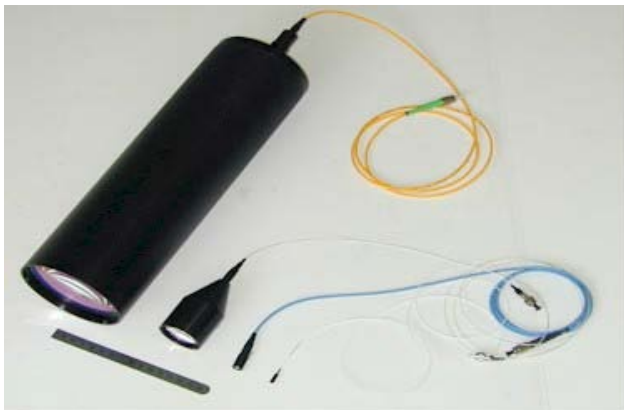
## Fiber Optic Collimators and Focusers (Wavelength from 300 to 5000 nm)

### 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 35	350 - 1700	1.1	< 20	500
OEFOC-202	4 x 10	300 - 2600	0.2	< 20	500
OEFOC-203	8 x 28	350 - 1700	2.4	< 20	500
OEFOC-204	4 x 10	300 - 2600	0.3	< 20	500
OEFOC-205	9 x 12	300 - 2600	0.85	< 20	500
OEFOC-206	6 x 11	300 - 2600	0.85	< 50	500
OEFOC-211	14 x 27	300 - 2600	3.6	< 50	500
OEFOC-212	8 x 28	300 - 2600	0.7	< 20	500
OEFOC-213	8 x 18	300 - 2600	0.7	< 50	500
OEFOC-214	12 x 20	300 - 2600	1.9	< 20	500
OEFOC-221	10 x 18.5	350 - 1700	2.4	< 20	500
OEFOC-222	9 x 21	300 - 2600	2.4	< 50	500
OEFOC-223	2 x 10	300 - 2600	0.2	< 20	500
OEFOC-224	10 x 19	300 - 2600	2.4	< 20	500
OEFOC-231	10 x 23.5	350 - 1600	3.6	< 20	500
OEFOC-232	9 x 20	350 - 1600	2.6	< 20	500
OEFOC-233	10 x 18	350 - 1600	2.2	< 20	500
OEFOC-234	8 x 12.5	350 - 1600	0.8	< 20	500
OEFOC-235	6 x 12.5	350 - 1600	0.8	< 20	500
OEFOC-251	18 X 26	300 - 2600	2.9	< 20	500
OEFOC-252	42 x 80	300 - 2600	15.8	< 20	500
OEFOC-253	24.5 X 30	300 - 2600	3.0	< 20	500
OEFOC-254	18 X 26	300 - 2600	2.9	< 50	500
OEFOC-261	8 x 13	300 - 2600	0.5	< 20	500
OEFOC-262	8 x 17.5	300 - 2600	1.5	< 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, $\mu\text{m}$	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

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

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