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TECHNOLOGY GROUP

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Laser Diode Objective Lenses



F-L10B



F-L40B



F-LA17



F-LA11

- Ideal for collimating or focusing
- Diffraction limited performance
- AR coated for high transmission
- Excellent wavefront quality
- Corrected for laser diode cover glass
- Microscope objective-type housing

These objective lenses have been specially designed for collimating and focusing laser diodes as well as fiber coupling. As laser diodes have very large beam divergence, we offer various high numerical aperture lenses and multiple focal lengths to accommodate your specific collimated beam diameter. These lenses have all been corrected for the standard laser diode cover glass. We offer both multi-element and aspheric lenses. All of these objectives are packaged in a microscope objective housing with standard RMS thread. They are compatible with our F-Series fiber coupling devices and ULTRAlign™ fiber positioners (see page 931).

Ordering Information

Model	Wavelength (nm)	Numerical Aperture (NA)	Focal Length (mm)	Clear Aperture (mm)	Working Distance (mm)	Cover Glass Thickness Correction (mm)	Transmission			
							800 nm	1060 nm	1300 nm	1550 nm
Multi-element Lenses										
F-L40B	750–850	0.47	4.50	4.5	2.3*	0.3/n = 1.5	>97%	94%	>97%	>97%
F-L10B	850–1550	0.25	12.00	5.0	6.0	ALL/n = 1.5	94%	94%	94%	94%
Aspheric Lenses										
F-LA15	460–1550	0.50	2.00	2.0	0.7*	0.25/BK 7	94%	94%	92%	88%
F-LA11	510–1550	0.40	6.24	5.0	3.0*	0.275/BK 7	93%	93%	91%	87%
F-LA17	430–1550	0.30	6.16	3.7	4.4*	0.275/BK 7	94%	94%	92%	88%
F-LA22	350–1550	0.25	11.00	5.5	7.5*	0.25/BK 7	93%	93%	91%	87%

* Working distance includes the cover glass thickness

Please see the Photonics and Instrumentation Section for a complete selection of laser diode products.

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