

Fiber-Related Precision Optics

Beam Expanders

Focusing Objective Lens

CO₂ F-Theta Scanning Lens

Custom Design and Prototypes

Precision Optics for High-Power Lasers

Focusing Objective Lenses

DPM Photonics offers a variety of positive and negative air-spaced, fused silica, aplanatic lenses. These two- and three-element lenses are corrected for spherical aberration and coma to produce a diffraction-limited focus, at a specific laser line, with minimum wavefront distortion. Standard products include objectives for 266 nm, 355 nm, 532 nm and 1064 nm (other wavelengths are available by request). We welcome the opportunity to discuss or quote custom aplanat lenses.



Features

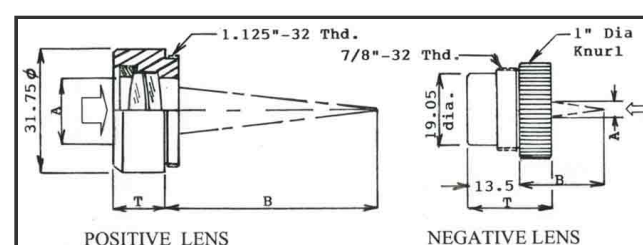
- High Power Handling (> 1 kW)
- Fused Silica Lens Elements
- Computer designed for best possible wavefront
- V-type coatings at 266 nm, 355 nm and 1064 nm
- Dual minimum coatings at 532 nm/1064 nm
- Positive lens elements can be assembled in reverse order so focus is opposite threaded end (upon request)

Applications

- Focusing of industrial lasers (solid state, fiber-based, etc.)
- Collimation of divergent fiber laser output beams
- Materials Processing

Click the column headers to sort.

Model No.	Wavelength	Effective Focal Length	F/Number	Back Focal Length	Aperture	Thickness
02-021-1064	1064 nm	25 mm	1.67	23.3 mm	15 mm	14 mm
02-021-532	532 nm	24.43 mm	1.63	22.7 mm	15 mm	14 mm
02-011-1064	1064 nm	37.5 mm	2.5	30.7 mm	15 mm	13.2 mm
02-011-532	532 nm	36.56 mm	2.44	29.8 mm	15 mm	13.2 mm
02-011-355	355 nm	35.34 mm	2.37	28.7 mm	15 mm	13.2 mm
02-020-1064	1064 nm	45.17 mm	2.51	35.2 mm	18 mm	14 mm
02-020-532	532 nm	44.04 mm	2.45	34.2 mm	18 mm	14 mm
02-006-1064	1064 nm	60.07 mm	4.04	54.6 mm	15 mm	12.2 mm
02-006-532	532 nm	58.64 mm	3.91	53.2 mm	15 mm	12.2 mm
02-006-355	355 nm	56.77 mm	3.78	51.4 mm	15 mm	12.2 mm
02-007-1064	1064 nm	90.76 mm	4.12	82.8 mm	22 mm	16.4 mm
02-007-532	532 nm	88.59 mm	4.03	80.7 mm	22 mm	16.4 mm
02-N09-1064	1064 nm	-8.96 mm	-2.98	14.4 mm	3 mm	22.9 mm
02-N09-532	532 nm	-8.74 mm	-2.91	14.2 mm	3 mm	22.9 mm
02-N12-1064	1064 nm	-12.25 mm	-4.08	14.4 mm	3 mm	20.1 mm
02-N12-532	532 nm	-11.95 mm	-3.98	14.1 mm	3 mm	20.9 mm
02-024-2000	1800-2200 nm	25.5 mm	1.66	24.4 mm	15 mm	14.2 mm
02-025-2000	1800-2200 nm	46 mm	2.0	22.4 mm	23 mm	24.1 mm



Drawing — click to enlarge

