

Aspheric Microlenses

- Molded glass aspheric microlenses
- Corrected for use with laser diodes
- Diffraction limited performance
- Mounting flanges built in

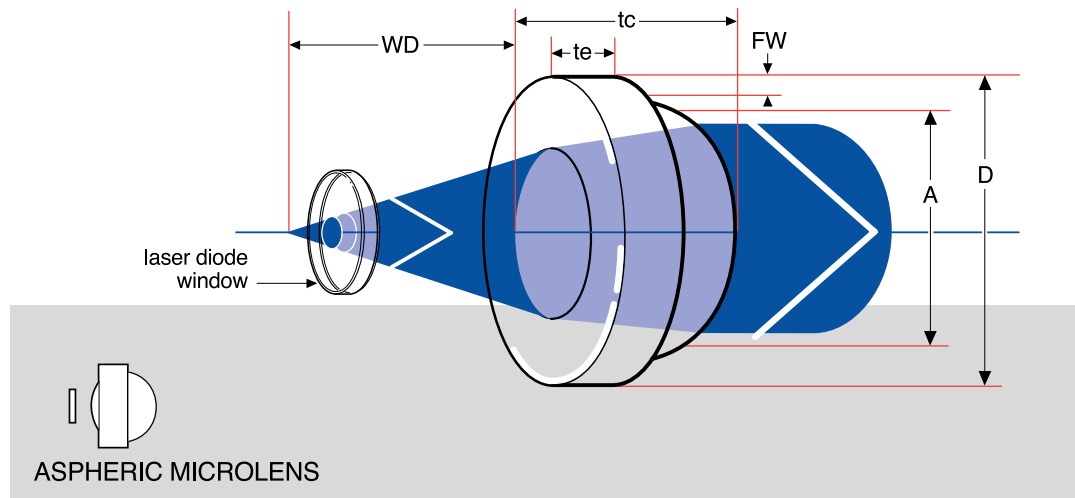


These aspheric lenses are manufactured by precision molding of optical crown glass. Aspheric surfaces permit a higher degree of correction than spherical surfaces thereby providing for improved performance out of a simple, single element lens. This range of microlenses have been corrected for use with a standard laser diode window and are primarily intended for the collection and collimation of laser diode radiation. They have diffraction limited performance at any wavelength in the laser diode spectrum and can be Anti-Reflection coated upon request. Since the lenses have been molded a mounting flange has been built in to the lens removing the need for costly and inconvenient mounting cells. A range of numerical apertures are offered and this should be selected according to the application.

Specifications & Tolerances

Focal length: $\pm 2\%$ @780nm
 Surface accuracy: $\lambda/2$ @780nm
 Surface quality: 40-20
 Window: BK7- 0.25mm
 Coating: Optional AR (see pages 18 and 19)

Diameter: ± 0.2 mm
 Thickness: ± 0.2 mm
 Centration: ± 0.1 mm
 Material: Corning C0550



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Numerical Aperture	Focal Length (mm)	Diameter, D (mm)	Thickness Center, tc (mm)	Thickness Edge, te (mm)	Flange Width, FW (mm)	Clear Aperture, A (mm)	Working Distance, WD (mm)	Price	PART NUMBER
0.15	18.40	6.50	2.2	1.8	0.35	5.5	17.1		023-5515
0.25	11.11	7.20	5.0	4.2	0.40	5.5	8.0		023-5525
0.30	6.16	4.70	3.5	2.9	0.30	3.7	4.4		023-5530
0.40	6.24	7.20	5.4	4.2	0.65	5.0	3.5		023-5540
0.50	2.00	3.00	2.0	1.4	0.30	2.0	1.1		023-5550
0.55	4.51	6.33	2.9	1.6	0.55	5.0	2.9		023-5555

For Anti-Reflection coatings see the table on pages 18 and 19 - append coating suffix and specify surfaces to be coated.