

- Spherical Lenses
- Cylindrical Lenses
- Lens Kits
- Achromatic Doublets
- Multi-Element**
- Micro Optics
- Mirrors
- Prisms
- Substrates & Windows
- Beamsplitters
- Polarizers
- Filter & Apertures

High Power Air-Spaced Laser Achromats

- Air-spaced design
- High damage Anti-Reflection coating
- Mounted in metal barrels for ease of use and pre-alignment
- Standard focal lengths from 40 to 200mm

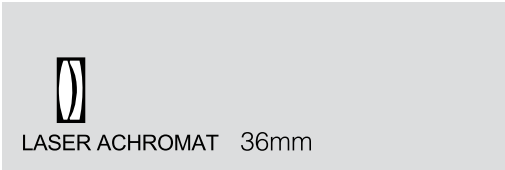
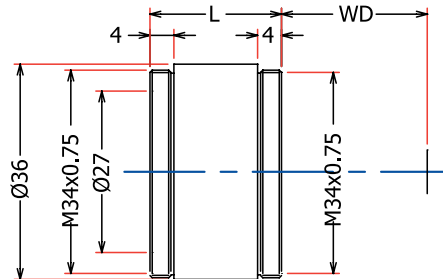


These laser achromats are ideal for use with any laser operating in the visible spectrum. They will also serve as excellent general purpose imaging lenses for white light applications. These lenses are optimized for three wavelengths, 486.1, 587.6 and 656.3nm. A crown and a flint glass element are housed in a metal cell and separated by a spacer. The air gap acts as a third lens element and provides a greater degree of correction than found in a cemented lens. In this way it is possible to balance the aberrations over a fairly wide range of wavelengths so that the lenses perform well as broadband imaging devices. Not only are chromatic effects minimized but other paraxial aberrations can also be significantly reduced. As a result, these lenses provide excellent performance for focusing, imaging and light collection. Both elements are coated with a broadband multilayer Anti-Reflection coating which will withstand high power laser use.

Specifications & Tolerances

Focal length: $\pm 2\%$ @ 532.1nm Material: BK7 and SF2
 Coating: Broadband Anti-Reflection 400-700nm
 Laser damage threshold: 7J/cm² @ 10ns pulse $\lambda=532$ nm

Detailed dimensions and optical parameters will be provided on request.



High Power Air-Spaced Laser Achromats

Focal Length @532nm	Working, Distance, WD (mm)	Cell Length, L (mm)	Lens Composition	Price	PART NUMBER
40.2	30.1	22.0	Triplet		026-5430
49.5	39.0	22.0	Triplet		026-5440
58.9	49.0	22.0	Triplet		026-5442
80.1	71.6	13.0	Doublet		026-5445
99.8	91.7	13.0	Doublet		026-5450
150.0	141.9	12.0	Doublet		026-5455
199.8	192.7	12.0	Doublet		026-5460

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