

TECHSPEC<sup>®</sup> 50mm Dia. x 350mm FL, VIS-NIR Coated, Achromatic Lens



Stock **#49-395** [CONTACT US](#)

☐ [Other Coating Options](#)

-

1

+

S\$312<sup>.20</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | S\$312.20 each                |
| Qty 6-25       | S\$249.20 each                |
| Qty 26-49      | S\$233.80 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

SPECIFICATIONS

General

Type:

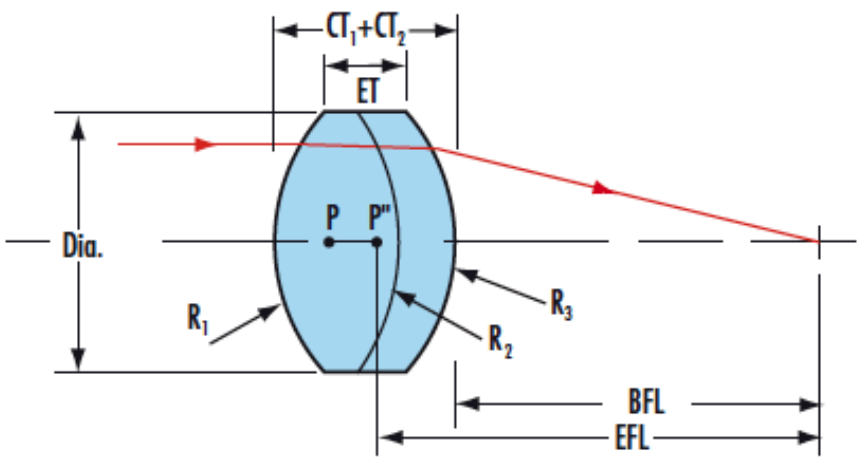
|                                                                                                                    |                                             |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Achromatic Lens                                                                                                    |                                             |
| Physical & Mechanical Properties                                                                                   |                                             |
| 50.00 +0.0/-0.025                                                                                                  | Diameter (mm):                              |
| 49.00                                                                                                              | Clear Aperture CA (mm):                     |
| <1                                                                                                                 | Centering (arcmin):                         |
| 12.00 ±0.20                                                                                                        | Center Thickness CT (mm):                   |
| 8.00 ±0.10                                                                                                         | Center Thickness CT 1 (mm):                 |
| 4.00 ±0.10                                                                                                         | Center Thickness CT 2 (mm):                 |
| 10.07                                                                                                              | Edge Thickness ET (mm):                     |
| Protective as needed                                                                                               | Bevel:                                      |
| Optical Properties                                                                                                 |                                             |
| 350.00                                                                                                             | Effective Focal Length EFL (mm):            |
| ±1                                                                                                                 | Focal Length Tolerance (%):                 |
| 344.32                                                                                                             | Back Focal Length BFL (mm):                 |
| 587.6                                                                                                              | Focal Length Specification Wavelength (nm): |
| 227.16                                                                                                             | Radius R <sub>1</sub> (mm):                 |
| -174.83                                                                                                            | Radius R <sub>2</sub> (mm):                 |
| -571.49                                                                                                            | Radius R <sub>3</sub> (mm):                 |
| N-BAK4 / N-SF10                                                                                                    | Substrate: <input type="checkbox"/>         |
| 40-20                                                                                                              | Surface Quality:                            |
| 7.00                                                                                                               | f/#:                                        |
| 0.07                                                                                                               | Numerical Aperture NA:                      |
| VIS-NIR (400-1000nm)                                                                                               | Coating:                                    |
| R <sub>abs</sub> ≤0.25% @ 880nm<br>R <sub>avg</sub> ≤1.25% @ 400 - 870nm<br>R <sub>avg</sub> ≤1.25% @ 890 - 1000nm | Coating Specification:                      |
| 1.5λ                                                                                                               | Power (P-V) @ 632.8nm:                      |
| λ/4                                                                                                                | Irregularity (P-V) @ 632.8nm:               |
| 400 - 1000                                                                                                         | Wavelength Range (nm):                      |
| Regulatory Compliance                                                                                              |                                             |
| Compliant                                                                                                          | RoHS 2015:                                  |
| View                                                                                                               | Certificate of Conformance:                 |
| Compliant                                                                                                          | REACH 241:                                  |

## PRODUCT DETAILS

- Designed for 0° Angle of Incidence
- Less Than 0.25% Reflectance Per Surface @ 880nm
- **MgF<sub>2</sub>** and **VIS 0°** Coated Achromats Also Available

TECHSPEC® VIS-NIR Coated Achromatic Lenses consist of two optical components cemented together to form an achromatic doublet. The doublet is computer optimized to correct for on-axis spherical and chromatic aberrations. TECHSPEC® VIS-NIR Coated Achromatic Lenses have visible/near-infrared broadband anti-reflection coating, which is specially optimized to yield maximum transmission (>99%) in the near-infrared. The achromatic lenses reduce reflection to less than 0.25 percent per surface at 880nm. **Magnesium Fluoride** coated and **VIS 0°** coated achromats are also available.

## TECHNICAL INFORMATION



## COATING CURVES

## CUSTOM

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## COMPATIBLE MOUNTS