

**TECHSPEC® 50mm Dia. x 100mm FL, VIS-NIR Coated, Achromatic Lens**



Stock #49-390 **5 In Stock**

[Other Coating Options](#)

1  MRP ₹22,499

Price inclusive of all taxes

**ADD TO CART**

Volume Pricing	
Qty 1-5	₹22,499 each
Qty 6-25	₹17,958 each
Qty 26-49	₹16,849 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

Achromatic Lens **Type:**

**Physical & Mechanical Properties**

**Diameter (mm):**

50.00 +0.0/-0.025

49.00 **Clear Aperture CA (mm):**

<1 **Centering (arcmin):**

17.92 ±0.20 **Center Thickness CT (mm):**

13.92 ±0.10 **Center Thickness CT 1 (mm):**

4.00 ±0.10 **Center Thickness CT 2 (mm):**

12.55 **Edge Thickness ET (mm):**

Protective as needed **Bevel:**

## Optical Properties

100.00 **Effective Focal Length EFL (mm):**

±1 **Focal Length Tolerance (%):**

89.94 **Back Focal Length BFL (mm):**

587.6 **Focal Length Specification Wavelength (nm):**

69.28 **Radius R<sub>1</sub> (mm):**

-46.95 **Radius R<sub>2</sub> (mm):**

-446.01 **Radius R<sub>3</sub> (mm):**

**Substrate:**   
N-BAF10 / N-SF10

40-20 **Surface Quality:**

2.00 **f#:**

0.25 **Numerical Aperture NA:**

VIS-NIR (400-1000nm) **Coating:**

**Coating Specification:**  
R<sub>abs</sub> ≤0.25% @ 880nm  
R<sub>avg</sub> ≤1.25% @ 400 - 870nm  
R<sub>avg</sub> ≤1.25% @ 890 - 1000nm

1.5λ **Power (P-V) @ 632.8nm:**

M4 **Irregularity (P-V) @ 632.8nm:**

400 - 1000 **Wavelength Range (nm):**

## Regulatory Compliance

**RoHS 2015:**  
Compliant

**Certificate of Conformance:**  
View

**REACH 241:**  
Compliant

Japan **Country of Origin:**

**Imported By:**  
Edmund Optics India Private Limited  
267, Greystone Building, Second Floor,  
6th Cross Rd, Binnamangala,  
Stage 1, Indiranagar, Bengaluru,  
Karnataka, India 560038  
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## Need different specs or modifications?

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](#).

## 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

## Compatible Mounts