

TECHSPEC® 9mm Dia. x 45mm FL, VIS-NIR Coated, Achromatic Lens



Stock #49-318 **20+ In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ MRP ₹8,576

● Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹8,576 each
Qty 6-25	₹6,861 each
Qty 26-49	₹6,406 each
Need More?	Request Quote

Product Downloads

General

Achromatic Lens **Type:**

Physical & Mechanical Properties

Diameter (mm):

9.00 +0.0/-0.025

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

<1 **Centering (arcmin):**

4.30 ±0.10 **Center Thickness CT (mm):**

3.00 ±0.05 **Center Thickness CT 1 (mm):**

1.30 ±0.05 **Center Thickness CT 2 (mm):**

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

Protective as needed **Bevel:**

Optical Properties

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

±1 **Focal Length Tolerance (%):**

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

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

27.83 **Radius R₁ (mm):**

-19.75 **Radius R₂ (mm):**

-57.06 **Radius R₃ (mm):**

Substrate:
N-BK7 / N-SF5

40-20 **Surface Quality:**

5.00 **f#:**

0.10 **Numerical Aperture NA:**

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

Coating Specification:
R_{abs} ≤0.25% @ 880nm
R_{avg} ≤1.25% @ 400 - 870nm
R_{avg} ≤1.25% @ 890 - 1000nm

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:**

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
Phone: +91- 80-6845 0000

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
- **MgF₂** 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