

TECHSPEC[®] 18mm Dia. x 27mm FL, VIS-NIR, Inked, Achromatic Lens



Stock **#49-339-INK** [CONTACT US](#)

[Other Coating Options](#)

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1

+

C\$176^{.40}

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Volume Pricing	
Qty 1-5	C\$176.40 each
Qty 6-25	C\$141.40 each
Qty 26-49	C\$131.60 each
Need More?	Request Quote

Product Downloads

General

Type:
Achromatic Lens

Physical & Mechanical Properties

Diameter (mm):
18.00 ±0.025

17.00	Clear Aperture CA (mm):
<1	Centering (arcmin):
9.27 ±0.20	Center Thickness CT (mm):
7.67 ±0.10	Center Thickness CT 1 (mm):
1.60 ±0.10	Center Thickness CT 2 (mm):
6.62	Edge Thickness ET (mm):
Protective as needed	Bevel:

Optical Properties

27.00	Effective Focal Length EFL (mm):
±1	Focal Length Tolerance (%):
21.74	Back Focal Length BFL (mm):
587.6	Focal Length Specification Wavelength (nm):
18.70	Radius R ₁ (mm):
-13.11	Radius R ₂ (mm):
-119.12	Radius R ₃ (mm):
N-BAF10 / N-SF10	Substrate: □
40-20	Surface Quality:
1.5	f/#:
0.33	Numerical Aperture NA:
VIS-NIR (400-1000nm)	Coating:
R _{abs} ≤0.25% @ 880nm R _{avg} ≤1.25% @ 400 - 870nm R _{avg} ≤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

View	Certificate of Conformance:
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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

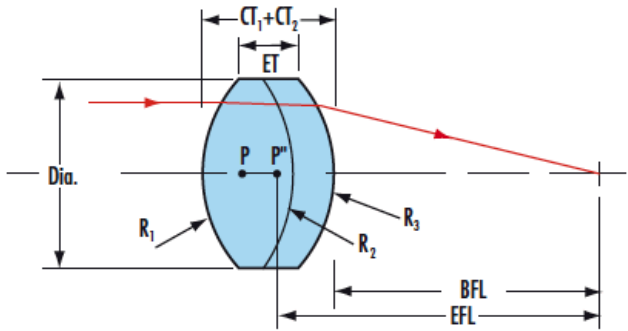
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

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