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TECHSPEC[®]

50mm Dia. x 300mm FL, VIS-NIR Coated, Achromatic Lens



Stock **#49-394** **20+ In Stock**

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1

+

C\$312^{.20}

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Volume Pricing	
Qty 1-5	C\$312.20 each
Qty 6-25	C\$249.20 each
Qty 26-49	C\$233.80 each
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Product Downloads

General

Type:

Achromatic Lens

Physical & Mechanical Properties

Diameter (mm):

50.00 +0.0/-0.025

49.00	Clear Aperture CA (mm):
<1	Centering (arcmin):
12.50 ±0.20	Center Thickness CT (mm):
9.00 ±0.10	Center Thickness CT 1 (mm):
3.5 ±0.10	Center Thickness CT 2 (mm):
10.24	Edge Thickness ET (mm):
Protective as needed	Bevel:

Optical Properties

300.00	Effective Focal Length EFL (mm):
±1	Focal Length Tolerance (%):
292.91	Back Focal Length BFL (mm):
587.6	Focal Length Specification Wavelength (nm):
173.11	Radius R ₁ (mm):
-164.03	Radius R ₂ (mm):
-709.83	Radius R ₃ (mm):
N-BAK4 / N-SF10	Substrate: □
40-20	Surface Quality:
6.00	f/#:
0.08	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

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
- 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

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

