

TECHSPEC[®] 50mm Dia. x 75mm FL, VIS 0°, Inked, Achromatic Lens



Stock **#49-292-INK** [CONTACT US](#)

[Other Coating Options](#)

-

1

+

S\$316^{.40}

ADD TO CART

Volume Pricing	
Qty 1-5	S\$316.40 each
Qty 6-25	S\$252.00 each
Qty 26-49	S\$236.60 each
Need More?	Request Quote

Product Downloads

General

Type:
Achromatic Lens

Physical & Mechanical Properties

Diameter (mm):
50.00 ±0.025

49.00	Clear Aperture CA (mm):
<1	Centering (arcmin):
24.50 ±0.20	Center Thickness CT (mm):
20.00 ±0.10	Center Thickness CT 1 (mm):
4.50 ±0.10	Center Thickness CT 2 (mm):
17.07	Edge Thickness ET (mm):
Protective as needed	Bevel:
Optical Properties	
75.00	Effective Focal Length EFL (mm):
±1	Focal Length Tolerance (%):
61.17	Back Focal Length BFL (mm):
587.6	Focal Length Specification Wavelength (nm):
51.88	Radius R ₁ (mm):
-32.79	Radius R ₂ (mm):
-309.45	Radius R ₃ (mm):
N-BAF10 / N-SF10	Substrate: □
40-20	Surface Quality:
1.5	f/#:
0.33	Numerical Aperture NA:
VIS 0° (425-675nm)	Coating:
R _{avg} ≤0.4% @ 425 - 675nm	Coating Specification:
1.5λ	Power (P-V) @ 632.8nm:
λ/4	Irregularity (P-V) @ 632.8nm:
425 - 675	Wavelength Range (nm):
Regulatory Compliance	
View	Certificate of Conformance:

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

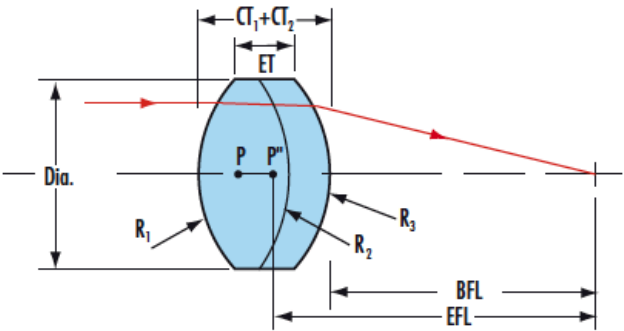
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

- Designed for 0° Angle of Incidence
- Less Than 0.4% Reflectance Per Surface from 425 - 675nm
- [MgF₂](#) and [VIS-NIR](#) Coated Achromats Also Available

TECHSPEC® VIS 0° 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. Achromatic lenses are best for applications involving multi-color (white light) imaging due to their specific doublet lens pairing that enables them to correct the color separation inherent in glass. TECHSPEC® VIS 0° Coated Achromatic Lenses provide optimized transmission for 425 – 675nm, reducing average reflection to 0.4%. [MgF₂](#) and [VIS-NIR](#) Coated Achromats are also available on our website.

Technical Information



Coating Curves

Compatible Mounts