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TECHSPEC[®] 12.7mm Dia. x 50.8mm FL, VIS 0° Coated, Achromatic Lens



Stock **#49-777** 20+ In Stock

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-

1

+

A\$146⁴⁰

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Volume Pricing	
Qty 1-5	A\$146.40 each
Qty 6-25	A\$116.80 each
Qty 26-49	A\$109.60 each
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Product Downloads

General

Type:

Achromatic Lens

Physical & Mechanical Properties

Diameter (mm):

12.70 +0.0/-0.025

11.70	Clear Aperture CA (mm):
<1	Centering (arcmin):
4.00 ±0.20	Center Thickness CT (mm):
2.50 ±0.10	Center Thickness CT 1 (mm):
1.50 ±0.10	Center Thickness CT 2 (mm):
3.16	Edge Thickness ET (mm):
Protective as needed	Bevel:

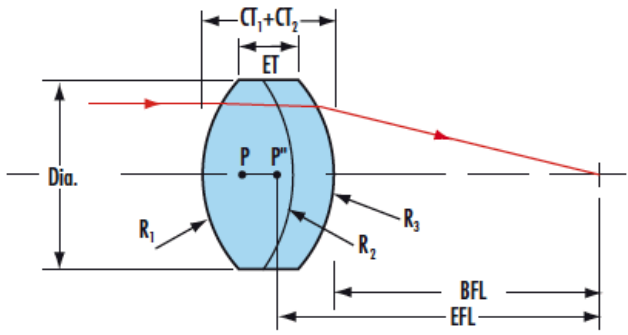
Optical Properties	
50.80	Effective Focal Length EFL (mm):
±1	Focal Length Tolerance (%):
48.86	Back Focal Length BFL (mm):
587.6	Focal Length Specification Wavelength (nm):
33.17	Radius R ₁ (mm):
-23.98	Radius R ₂ (mm):
-89.03	Radius R ₃ (mm):
N-BAK1 / N-SF15	Substrate: □
40-20	Surface Quality:
4.00	f/#:
0.13	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	
Compliant	Reach 181:
Compliant	RoHS 2015:
View	Certificate of Conformance:

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

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