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TECHSPEC® 12.5mm Dia. x 17.5mm FL, VIS 0° Coated, Achromatic Lens

Stock **#49-940** **13 In Stock**

Other Coating Options

- 1 + S$128.10

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Volume Pricing	
Qty 1-5	**S$128.10** each
Qty 6-25	**S$102.20** each
Qty 26-49	**S$95.90** each
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Product Downloads

General

Type:

Achromatic Lens

Physical & Mechanical Properties

Diameter (mm):

12.50 +0.0/-0.025

Clear Aperture CA (mm):
11.50

Centering (arcmin):
<1

Center Thickness CT (mm):
7.30 ±0.10

Center Thickness CT 1 (mm):
5.80 ±0.05

Center Thickness CT 2 (mm):
1.50 ±0.05

Edge Thickness ET (mm):
5.08

Bevel:
Protective as needed

Optical Properties

Effective Focal Length EFL (mm):
17.50

Focal Length Tolerance (%):
±1

Back Focal Length BFL (mm):
13.59

Focal Length Specification Wavelength (nm):
587.6

Radius R_1 (mm):
12.20

Radius R_2 (mm):
-9.82

Radius R_3 (mm):
-39.19

Substrate:
N-BAF10 / N-SF57

Surface Quality:
40-20

f/#:
1.4

Numerical Aperture NA:
0.36

Coating:
VIS 0° (425-675nm)

Coating Specification:
R_{avg} ≤0.4% @ 425 - 675nm

Power (P-V) @ 632.8nm:
1.5λ

Irregularity (P-V) @ 632.8nm:
λ/4

Wavelength Range (nm):
425 - 675

Regulatory Compliance

RoHS 2015:
Compliant

Reach 219:
Compliant

Certificate of Conformance:
View

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.

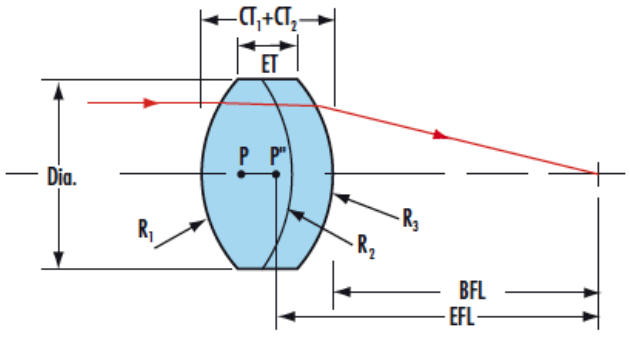
Product Details

- Designed for 0° Angle of Incidence
- Less Than 0.4% Reflectance Per Surface from 425 - 675nm

- MgF_2 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

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