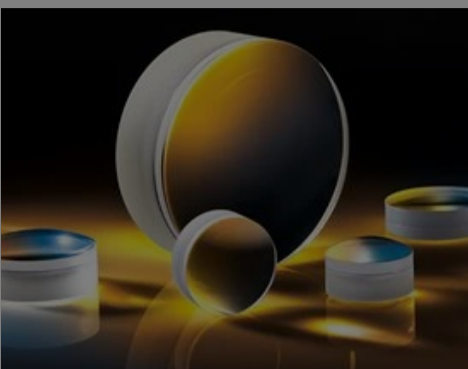


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/ [VIS-NIR Coated Achromatic Lens](#)

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**TECHSPEC® 9mm D**

**achromatic Lens**



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Select Your Country/Region: European Union

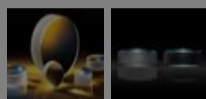
Submit

Options

- 1 +

€96<sup>,00</sup>

ADD TO CART



Volume Pricing

Qty 1-5 €96,00 each

Qty 6-25 €77,00 each

Qty 26-49 €72,50 each

Need More? [Request Quote](#)

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:stp PDF Drawing:pdf
- ISO 10110 Drawing
- IGES:igs Zemax:zar
- Zemax:zmx eDrawing:eprt
- Code V:seq EO Spec Sheet

General

Type: Achromatic Lens

Physical & Mechanical Properties

Diameter (mm): 9.00 ±0.025

Clear Aperture CA (mm): 8.1

Centering (arcmin): <1

Center Thickness CT (mm): 5.50 ±0.10

Center Thickness CT 1 (mm): 4.00 ±0.05

Center Thickness CT 2 (mm): 1.50 ±0.05

Edge Thickness ET (mm): 4.22

Bevel: Protective as needed

Optical Properties

Effective Focal Length EFL (mm): 15.00

Focal Length Tolerance (%): ±1

Back Focal Length BFL (mm): 12.08

Focal Length Specification Wavelength (nm): 587.6

Radius R<sub>1</sub> (mm): 10.49

Radius R<sub>2</sub> (mm): -8.08

Radius R<sub>3</sub> (mm): -38.23

Substrate: [N-BAF10 / N-SF6](#)

Surface Quality: 40-20

f/#: 1.67

<b>Numerical Aperture NA:</b>	0.30	<b>Coating:</b>	VIS-NIR (400-1000nm)
<b>Coating Specification:</b>	$R_{abs} \leq 0.25\%$ @ 880nm $R_{avg} \leq 1.25\%$ @ 400 - 870nm $R_{avg} \leq 1.25\%$ @ 890 - 1000nm	<b>Power (P-V) @ 632.8nm:</b>	1.5λ
<b>Irregularity (P-V) @ 632.8nm:</b>	λ/4		

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Regulatory Compliance			
<b>RoHS 2015:</b>	<b>Compliant</b>	<b>REACH 201:</b>	<b>Compliant</b>
<b>Certificate of Conformance:</b>	<b>View</b>		

## 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 0.25% Reflectance Per Surface @ 880nm
- **MgF<sub>2</sub>** 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

VIS-NIR (400-1000nm)



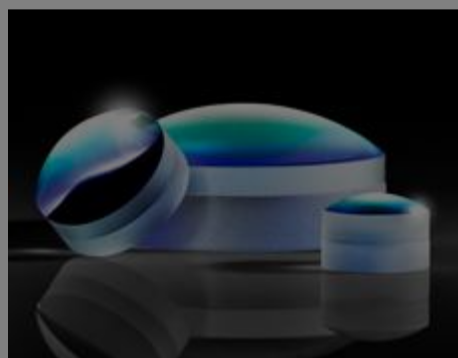
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**Select Your Country/Region:**

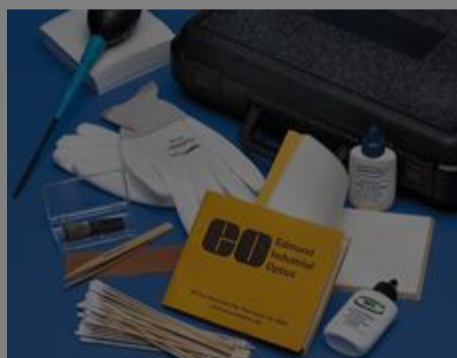
🔍 SHIFT + SELECT an area on CURVE to zoom

Please note that coating performance outside each product's specified design range is theoretical and may vary.

### Related Products



Aspherized Achromatic Lenses



Optical Cleaning



Optical Lens and Filter Mounts



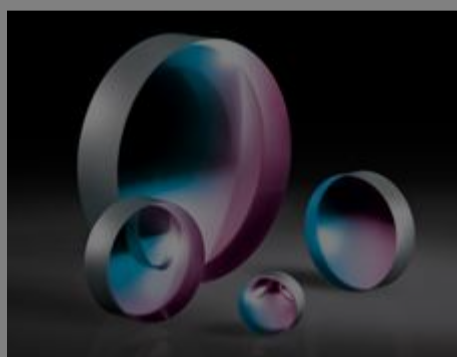
Optical Lenses

### Frequently Purchased Together



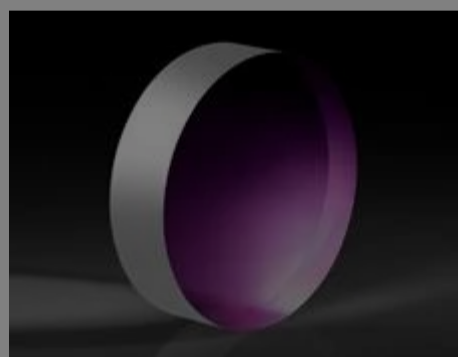
#45-490 - 12.0mm Dia. x 100.0mm FL, VIS-NIR Coated, Plano-Convex Lens  
€50,00

Qty



#45-700 - 9.0mm Dia. x -13.5 FL, Uncoated, UV Plano-Concave Lens  
€126,00

Qty



#49-124 - 9mm Dia., 2mm Thick, VIS-NIR Coated λ/4 N-BK7 Window  
€101,00

Qty



#49-313-INK - 9mm Dia. x 12mm FL, VIS-NIR, Inked, Achromatic Lens  
€96,00

Qty

### Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
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MORE+







9.0mm Optic Dia., Optic Mount  
Fixed

#64-553

€32,75  
Request Quote

8 In Stock

1

	Title	Type	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a> 	9mm Diameter, Mount Th Optic Mou				€40,75	3 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a> 	9mm Diameter, Mount Th Optic Mou					3 In Stock <input type="text" value="1"/> 

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Check out our full selection of mounts [here](#).

# Resources

## Media Type

- Application Note
- Glossary
- Scientific Paper
- Video
- FAQ

**APPLICATION NOTE**

Anti-Reflection (AR) Coatings

**APPLICATION NOTE**

An Introduction to Optical Coatings

**APPLICATION NOTE**

Lens Geometry Performance Comparison

**GLOSSARY**

NIR (Near Infrared)

**GLOSSARY**

VIS/NIR Coating

**APPLICATION NOTE**

The Correct Material for Infrared (IR) Applications

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