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

**TECHSPEC®**

# 6.25mm Dia. x 50mm FL, VIS-NIR, Inked, Achromatic Lens



Stock #49-311-INK [CONTACT US](#) [Other Coating Options](#)

1 MRP ₹9,717

Price inclusive of all taxes

**ADD TO CART**



Volume Pricing	
Qty 1-5	₹9,717 each
Qty 6-25	₹7,806 each
Qty 26-49	₹7,328 each
Need More?	<a href="#">Request Quote</a>

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

<b>Diameter (mm):</b>	6.25 ±0.025	<b>Clear Aperture CA (mm):</b>	5.625
<b>Centering (arcmin):</b>	<1	<b>Center Thickness CT (mm):</b>	3.00 ±0.10
<b>Center Thickness CT 1 (mm):</b>	2.00 ±0.05	<b>Center Thickness CT 2 (mm):</b>	1.00 ±0.05
<b>Edge Thickness ET (mm):</b>	2.77	<b>Bevel:</b>	Protective as needed

## Optical Properties

<b>Effective Focal Length EFL (mm):</b>	50.00	<b>Focal Length Tolerance (%):</b>	±1
<b>Back Focal Length BFL (mm):</b>	48.61	<b>Focal Length Specification Wavelength (nm):</b>	587.6
<b>Radius R<sub>1</sub> (mm):</b>	30.77	<b>Radius R<sub>2</sub> (mm):</b>	-22.05
<b>Radius R<sub>3</sub> (mm):</b>	-64.60	<b>Substrate:</b>	<a href="#">N-BK7</a> / <a href="#">N-SF5</a>
<b>Surface Quality:</b>	40-20	<b>f/#:</b>	8.00
<b>Numerical Aperture NA:</b>	0.06	<b>Coating:</b>	VIS-NIR (400-1000nm)

<b>Coating Specification:</b>	R <sub>abs</sub> ≤0.25% @ 880nm R <sub>avg</sub> ≤1.25% @ 400 - 870nm R <sub>avg</sub> ≤1.25% @ 890 - 1000nm	<b>Power (P-V) @ 632.8nm:</b>	1.5λ
<b>Irregularity (P-V) @ 632.8nm:</b>	λ/4	<b>Wavelength Range (nm):</b>	400 - 1000

## Regulatory Compliance

<b>Certificate of Conformance:</b>	<a href="#">View</a>		
<b>Country of Origin:</b>	Japan	<b>Imported By:</b>	Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91-80-6845 0000

## 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

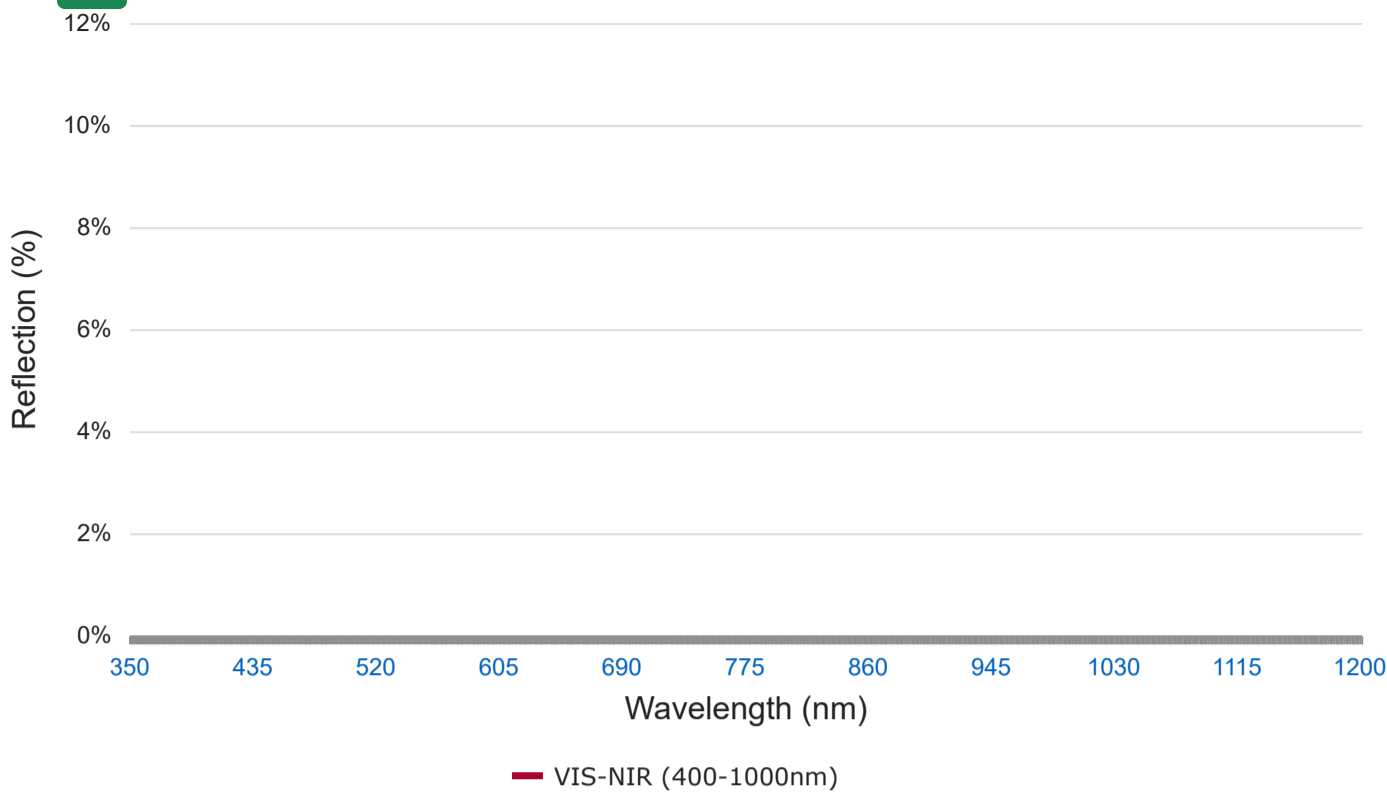
- Designed for 0° Angle of Incidence
- Less Than 0.25% Reflectance Per Surface @ 880nm
- **MgF<sub>2</sub>** and **VIS 0°** Coated Achromats Also Available

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)



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



#13-800 - Small Lens Clamp for 4-8mm Dia. Optics  
₹17,353

Qty

### Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	6.25mm Diameter, S-Mount Thick Optic Mount	Fixed		#63-949	₹4,112 <a href="#">Request Quote</a>	1 In Stock <input type="text" value="1"/>
	6.25mm Inner Single Optic Mount	Fixed		#38-746	₹4,137 <a href="#">Request Quote</a>	3 In Stock <input type="text" value="1"/>

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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