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**TECHSPEC®**

# 6.25mm Dia. x 1mm Thick Achromatic Doublet Lens

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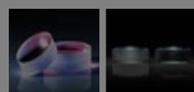
Stock #49-925 **20+ In Stock** [Other Coating Options](#)

1

€71<sup>00</sup>

ADD TO CART

MgF<sub>2</sub> Coated Achromatic Lenses



### Volume Pricing

Qty 1-5	€71,00 each
Qty 6-25	€57,00 each
Qty 26-49	€53,00 each
Need More?	<a href="#">Request Quote</a>

Prices shown are exclusive of VAT/local taxes

### Product Downloads

- STEP:stp
- PDF Drawing:pdf
- ISO 10110 Drawing
- IGES:igs
- Spec Sheets:pdf
- Zemax:zar
- Zemax:zmx
- eDrawing:easm
- Code V:seq
- EO Spec Sheet
- [Download All](#)

## General

Type: Achromatic Lens

## Physical & Mechanical Properties

<b>Diameter (mm):</b>	6.25 +0.0/-0.025	<b>Clear Aperture CA (mm):</b>	5.625
<b>Centering (arcmin):</b>	<1	<b>Center Thickness CT (mm):</b>	3.75 ±0.10
<b>Center Thickness CT 1 (mm):</b>	2.75 ±0.05	<b>Center Thickness CT 2 (mm):</b>	1.00 ±0.05
<b>Edge Thickness ET (mm):</b>	3.18	<b>Bevel:</b>	Protective as needed

## Optical Properties

<b>Effective Focal Length EFL (mm):</b>	17.50	<b>Focal Length Tolerance (%):</b>	±1
<b>Back Focal Length BFL (mm):</b>	15.46	<b>Focal Length Specification Wavelength (nm):</b>	587.6
<b>Radius R<sub>1</sub> (mm):</b>	11.13	<b>Radius R<sub>2</sub> (mm):</b>	-9.22
<b>Radius R<sub>3</sub> (mm):</b>	-38.49	<b>Substrate:</b>	<a href="#">N-SSK8</a> / <a href="#">N-SF56</a>

<b>Surface Quality:</b>	40-20	<b>f/#:</b>	2.8
<b>Numerical Aperture NA:</b>	0.18	<b>Coating:</b>	MgF <sub>2</sub> (400-700nm)
<b>Coating Specification:</b>	R <sub>avg</sub> ≤1.75% @ 400 - 700nm	<div style="border: 1px solid black; padding: 10px; background-color: white;"> <p>Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.</p> <p><b>Select Your Country/Region:</b></p> </div>	
<b>Irregularity (P-V) @ 632.8nm:</b>	λ/4		

## Regulatory Compliance

<b>RoHS 2015:</b>	<b>Compliant</b>	<b>Reach 224:</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 1.75% Reflectance Per Surface @ 400 - 700nm
- **VIS 0°** and **VIS-NIR** Coated Achromats Also Available

TECHSPEC® MgF<sub>2</sub> Coated Achromatic Lenses consist of two optical components cemented together to form an achromatic doublet which is computer optimized to correct for on-axis spherical and chromatic aberrations. These lenses feature a single layer of MgF<sub>2</sub> which provides less than 1.75% reflectivity from 400 – 700nm. TECHSPEC MgF<sub>2</sub> Coated 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. Having eliminated the problematic chromatic aberrations, achromatic doublet lenses become the most cost-efficient means for polychromatic illumination and imaging.

## Technical Information

## Coating Curves

MgF<sub>2</sub> (400-700nm)



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  
€172,00

Qty

### Frequently Purchased Together



#32-303 - 6.25mm Dia. x 20mm FL, MgF<sub>2</sub> Coated, Achromatic Doublet Lens  
€71,00

Qty



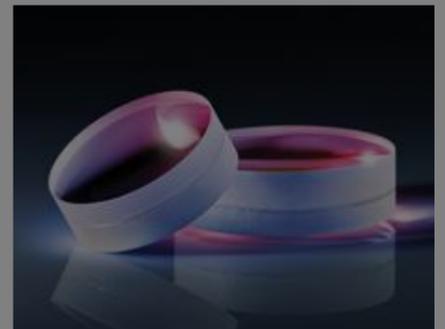
#03-631 - 0.5mm Thick, C-Mount Brass Spacer Ring  
€11,25

Qty



#32-299 - 6.25mm Dia. x 12.5mm FL, MgF<sub>2</sub> Coated, Achromatic Doublet Lens  
€71,00

Qty



#32-301 - 6.25mm Dia. x 15mm FL, MgF<sub>2</sub> Coated, Achromatic Doublet Lens  
€71,00

Qty

### Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a> 	6.25mm Diameter, Mount Thickness, Optic Mount				€40.75	20+ In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a> 	6.25mm Diameter, Mount Thickness, Optic Mount					20+ In Stock <input type="text" value="1"/> 

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

# Resources

## Media Type

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

**APPLICATION NOTE**

### Anti-Reflection (AR) Coatings

**APPLICATION NOTE**

### An Introduction to Optical Coatings

**APPLICATION NOTE**

### Lens Geometry Performance Comparison

**SCIENTIFIC PAPER**

### Achrotech: achromat cost versus performance...

**APPLICATION NOTE**

### Why Use an Achromatic Lens?

**VIDEO**

### Achromatic Lenses Review

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