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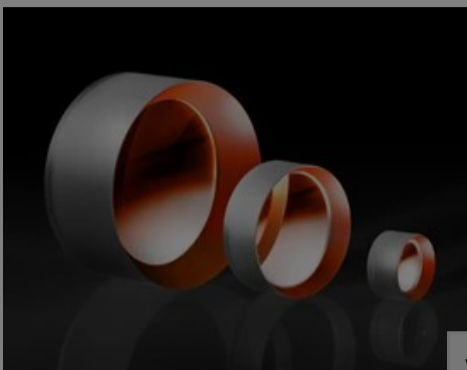
**TECHSPEC®**

40mm Dia x -12

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

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Stock #63-766 20+ In Stock

1

€200<sup>.00</sup>

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Volume Pricing	
Qty 1-5	€200,00 each
Qty 6-25	€160,00 each
Qty 26-49	€150,00 each
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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	<a href="#">Download All</a>

Prices shown are exclusive of VAT/local taxes

**General**

Type: Negative Achromatic Lens

**Physical & Mechanical Properties**

Diameter (mm): 40.00 +0.0/-0.025

Clear Aperture CA (mm): 39.00

Centering (arcmin): <1

Center Thickness CT (mm): 10.50 ±0.20

Center Thickness CT 1 (mm): 4.00 ±0.10

Center Thickness CT 2 (mm): 6.50 ±0.10

Edge Thickness ET (mm): 14.31

Bevel: Protective as needed

**Optical Properties**

Effective Focal Length EFL (mm): -120.00

Focal Length Tolerance (%): ±1

Back Focal Length BFL (mm): -124.27

Focal Length Specification Wavelength (nm): 587.6

Radius R<sub>1</sub> (mm): -72.65

Radius R<sub>2</sub> (mm): 56.77

Radius R<sub>3</sub> (mm): 173.40

Substrate: [N-BK7](#) / [N-SF5](#)

Surface Quality: 40-20

f/#: 3.00

<b>Numerical Aperture NA:</b>	0.17	<b>Coating:</b>	MgF <sub>2</sub> (400-700nm)
<b>Coating Specification:</b>	R <sub>avg</sub> ≤1.75% @ 400 - 700nm	<b>Power (P-V) @ 632.8nm:</b>	1.5λ
<b>Irregularity (P-V) @ 632.8nm:</b>	λ/4		

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## 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

- Magnesium Fluoride (MgF<sub>2</sub>) Coating
- Used to Extend Focal Length
- **Broadband AR Coated Negative Achromatic Lenses** Also Available

TECHSPEC® MgF<sub>2</sub> Coated Negative Achromatic Lenses consist of two optical elements cemented together. Negative doublet lenses are corrected for color and on-axis aberrations. TECHSPEC MgF<sub>2</sub> Coated Negative Achromatic Lenses are used predominantly as Barlow lenses to extend focal lengths. These lenses are often combined with positive achromatic mirror systems and imaging lenses.

## Technical Information

## Coating Curves

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



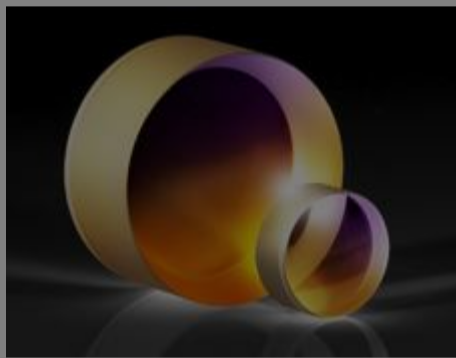
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SHIFT + SELECT an area on CURVE to zoom

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

### Related Products



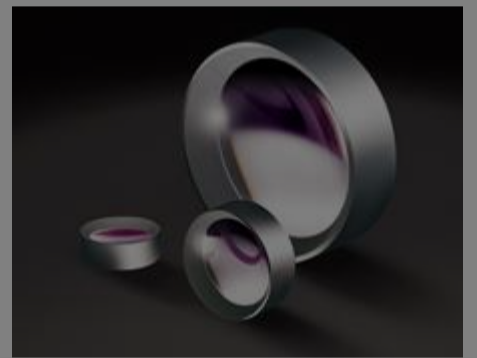
Broadband AR Coated Negative Achromatic Lenses



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



MgF<sub>2</sub> Coated Double-Concave (DCV) Lenses



MgF<sub>2</sub> Coated Plano-Concave (PCV) Lenses

### Frequently Purchased Together



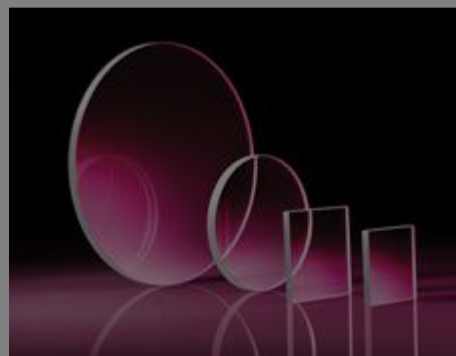
#32-877 - 25mm Dia. x 175mm FL Uncoated, Double-Convex Lens  
**€35,75**

Qty



#45-154 - 50.0mm Dia. x 250.0mm FL, MgF<sub>2</sub> Coated, Plano-Convex Lens  
**€61,50**

Qty



#45-182 - 12.5mm Square MgF<sub>2</sub> Coated, B270 Window  
**€41,50**



Qty



#45-369 - 75.0mm Dia. x 150.0mm FL, Uncoated, Plano-Convex Lens  
**€86,50**

Qty

### Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a> 	40mm Diameter, Mount Th... Optic Mou				€72,00	15 In Stock <input type="text" value="1"/> 

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# 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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