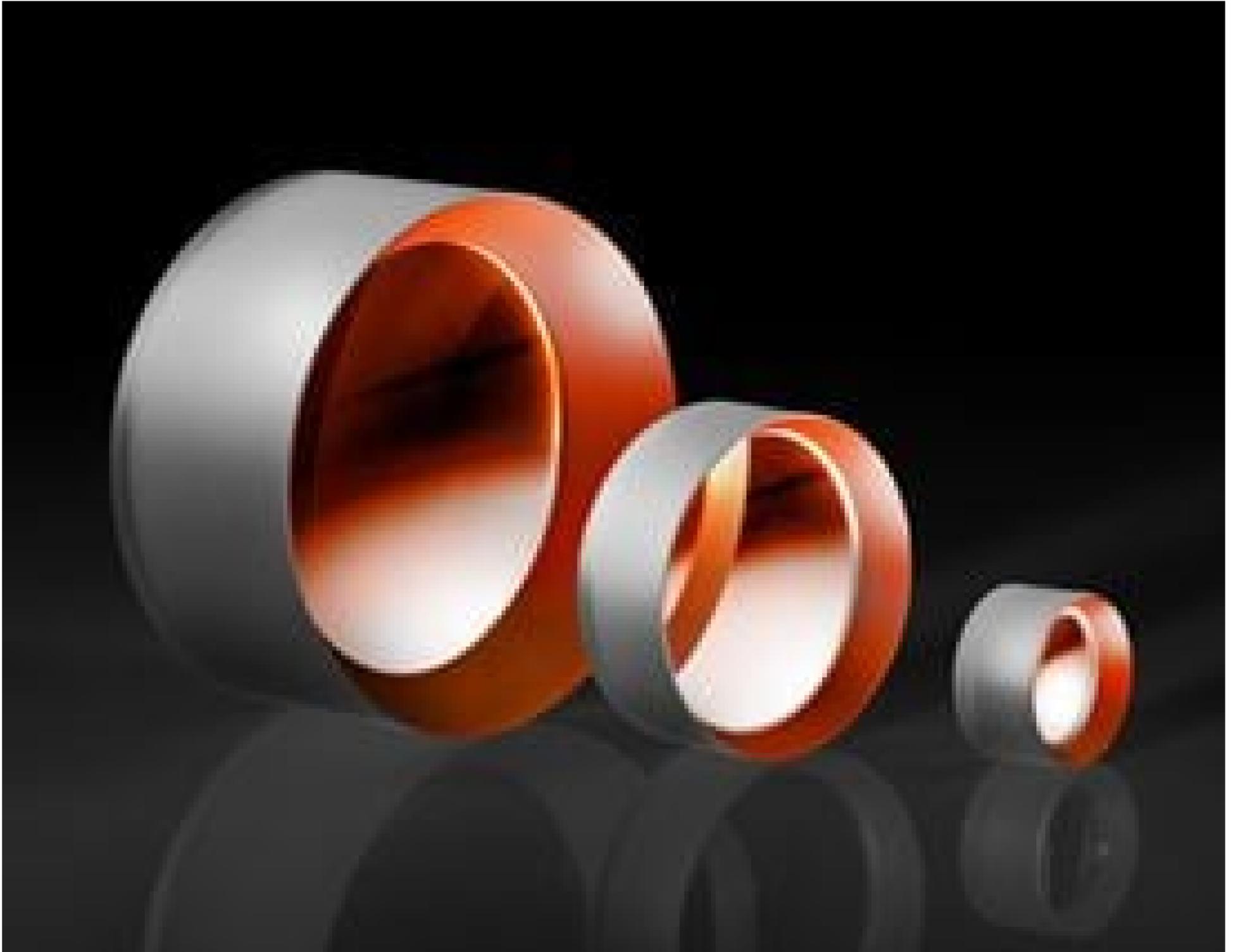


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**TECHSPEC® 12.5mm Dia x -50mm FL Negative Doublet Lens MgF<sub>2</sub> Coated**



Stock #45-220 **20+ In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ €92.<sup>50</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	€92,50 each
Qty 6-25	€74,00 each
Qty 26-49	€69,50 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Negative Achromatic Lens **Type:**

**Physical & Mechanical Properties**

12.50 +0.0/-0.025 **Diameter (mm):**

11.50	Clear Aperture CA (mm):
<1	Centering (arcmin):
3.56 ±0.10	Center Thickness CT (mm):
2.00 ±0.05	Center Thickness CT 1 (mm):
1.56 ±0.05	Center Thickness CT 2 (mm):
4.40	Edge Thickness ET (mm):
Protective as needed	Bevel:

## Optical Properties

-50.00	Effective Focal Length EFL (mm):
±1	Focal Length Tolerance (%):
-51.58	Back Focal Length BFL (mm):
587.6	Focal Length Specification Wavelength (nm):
-30.83	Radius R <sub>1</sub> (mm):
23.47	Radius R <sub>2</sub> (mm):
69.20	Radius R <sub>3</sub> (mm):
<a href="#">N-BK7 / N-SF5</a>	Substrate: <input type="checkbox"/>
40-20	Surface Quality:
4.00	f#:
0.13	Numerical Aperture NA:
MgF <sub>2</sub> (400-700nm)	Coating:
R <sub>avg</sub> ≤1.75% @ 400 - 700nm	Coating Specification:
1.5λ	Power (P-V) @ 632.8nm:
λ/4	Irregularity (P-V) @ 632.8nm:
400 - 700	Wavelength Range (nm):

## Regulatory Compliance

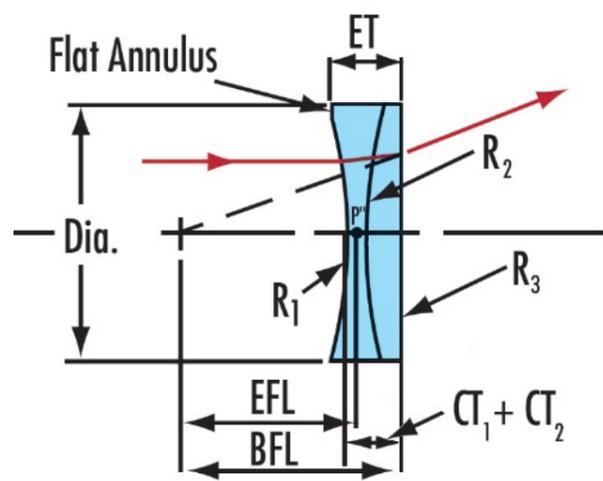
<a href="#">Compliant</a>	RoHS 2015:
<a href="#">Compliant</a>	Reach 219:
<a href="#">View</a>	Certificate of Conformance:

## 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

### Custom

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](#).

## Compatible Mounts