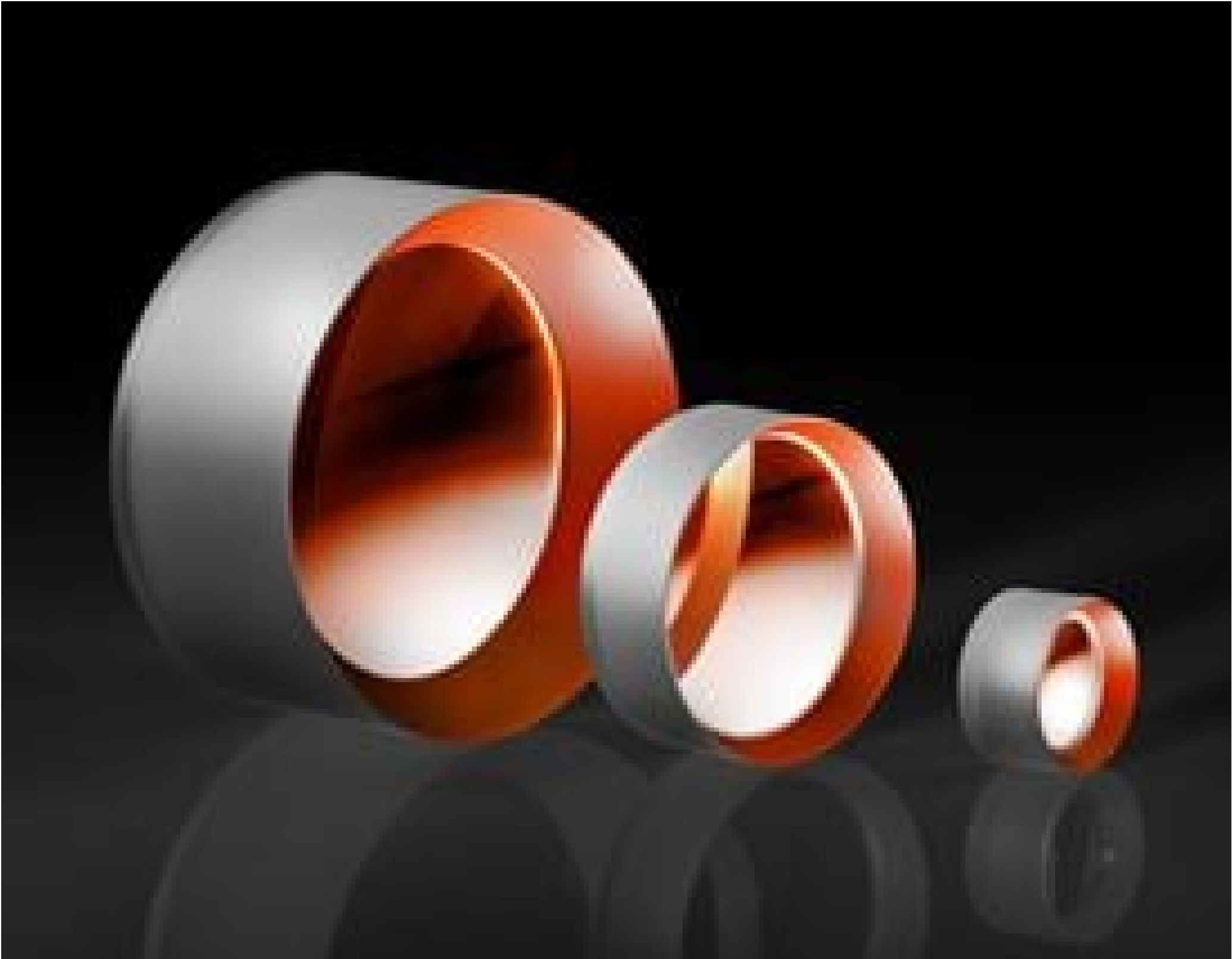


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TECHSPEC®

12.5mm Dia x -50mm FL Negative Doublet Lens MgF₂ Coated



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

☐ Other Coating Options

-

1

+

£74^{.00}

ADD TO CART

Volume Pricing	
Qty 1-5	£74.00 each
Qty 6-25	£59.20 each
Qty 26-49	£55.60 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General	
Type:	
Negative Achromatic Lens	
Physical & Mechanical Properties	
Diameter (mm):	
12.50 +0.0/-0.025	

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 ₁ (mm):
23.47	Radius R ₂ (mm):
69.20	Radius R ₃ (mm):
N-BK7 / N-SF5	Substrate:
40-20	Surface Quality:
4.00	f/#:
0.13	Numerical Aperture NA:
MgF ₂ (400-700nm)	Coating:
R _{avg} ≤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

Compliant	RoHS 2015:
Compliant	Reach 219:
View	Certificate of Conformance:

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](#).

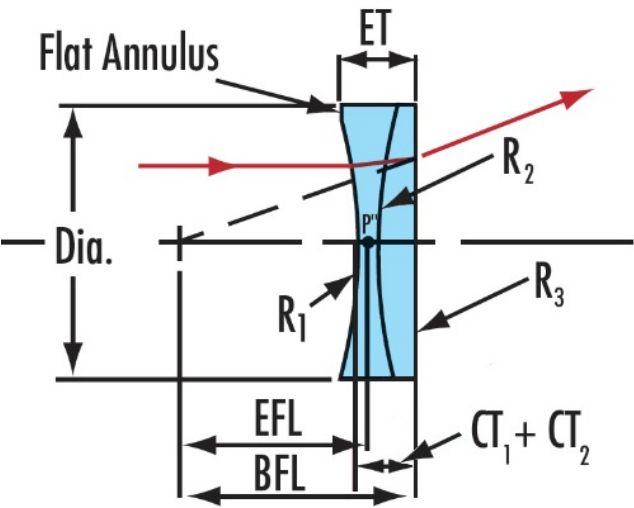
Product Details

- Magnesium Fluoride (MgF₂) Coating
- Used to Extend Focal Length

• [Broadband AR Coated Negative Achromatic Lenses](#) Also Available

TECHSPEC® MgF₂ Coated Negative Achromatic Lenses consist of two optical elements cemented together. Negative doublet lenses are corrected for color and on-axis aberrations. TECHSPEC MgF₂ 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

Compatible Mounts

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