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TECHSPEC® 12.5mm Dia x -35mm FL Negative Doublet Lens MgF₂ Coated



Stock #45-424 **20+ In Stock**

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− 1 + MRP ₹9,333

Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹9,333 each
Qty 6-25	₹7,466 each
Qty 26-49	₹7,012 each
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General

Negative Achromatic Lens **Type:**

Physical & Mechanical Properties

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

Clear Aperture CA (mm):

11.50

<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):**

4.74 **Edge Thickness ET (mm):**

Protective as needed **Bevel:**

Optical Properties

-35.00 **Effective Focal Length EFL (mm):**

±1 **Focal Length Tolerance (%):**

-36.51 **Back Focal Length BFL (mm):**

587.6 **Focal Length Specification Wavelength (nm):**

-21.66 **Radius R₁ (mm):**

17.48 **Radius R₂ (mm):**

50.54 **Radius R₃ (mm):**

Substrate:

N-BK7 / N-SF5

40-20 **Surface Quality:**

2.8 **f#:**

0.18 **Numerical Aperture NA:**

MgF₂ (400-700nm) **Coating:**

Coating Specification:
R_{avg} ≤1.75% @ 400 - 700nm

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:**

Japan **Country of Origin:**

Imported By:
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

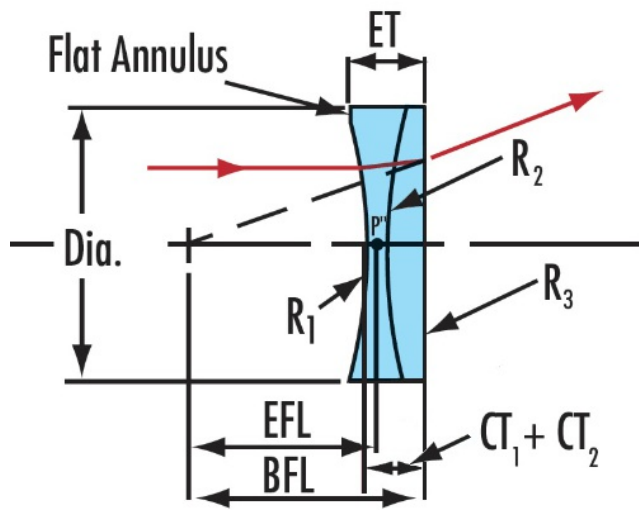
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

- 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