

TECHSPEC[®] 25mm Dia x -100mm FL Negative Doublet Lens MgF₂ Coated



Stock #45-222 4 In Stock

[Other Coating Options](#)

-

1

+

S\$175^{.00}

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Volume Pricing	
Qty 1-5	S\$175.00 each
Qty 6-25	S\$140.00 each
Qty 26-49	S\$131.60 each
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Product Downloads

General

Type:
Negative Achromatic Lens

Physical & Mechanical Properties

Diameter (mm):
25.00 +0.0/-0.025

Clear Aperture CA (mm):
24.00

	Centering (arcmin):
<1	
	Center Thickness CT (mm):
4.57 ±0.20	

	Center Thickness CT 1 (mm):
2.00 ±0.10	
	Center Thickness CT 2 (mm):
2.57 ±0.10	

	Edge Thickness ET (mm):
5.81	
	Bevel:
Protective as needed	

Optical Properties	
	Effective Focal Length EFL (mm):
-100.00	
	Focal Length Tolerance (%):
±1	

	Back Focal Length BFL (mm):
-102.37	
	Focal Length Specification Wavelength (nm):
587.6	

	Radius R ₁ (mm):
-70.57	
	Radius R ₂ (mm):
45.27	

	Radius R ₃ (mm):
412.67	
N-BAF10 / N-SF10	Substrate: □

	Surface Quality:
40-20	
	f/#:
4.00	

	Numerical Aperture NA:
0.13	
	Coating:
MgF ₂ (400-700nm)	

	Coating Specification:
R _{avg} ≤1.75% @400 - 700nm	
	Power (P-V) @ 632.8nm:
1.5λ	

	Irregularity (P-V) @ 632.8nm:
λ/4	
	Wavelength Range (nm):
400 - 700	

Regulatory Compliance	
	RoHS 2015:
Compliant	
	Certificate of Conformance:
View	

	Reach 247:
Compliant	

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

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