

30.5mm Dia. x 100mm EFL, NIR-MWIR Coated, Achromatic Lens



Ultra-Broadband Achromatic Lenses

Stock **#16-046** **1 In Stock**

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1

+

C\$1,421⁰⁰

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Volume Pricing	
Qty 1-9	C\$1,421.00 each
Qty 10+	C\$1,281.00 each
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Product Downloads

General	
Note:	
Lens element is 25.4mm in diameter	
Type:	
Broadband Achromatic Lens	
Physical & Mechanical Properties	
Clear Aperture CA (mm):	
22.86	
Housing Diameter (mm):	

30.48	
12.7	Housing Length (mm):
Anodized Aluminum Housing	Construction:
Optical Properties	
100.00 @ 1030nm	Effective Focal Length EFL (mm):
±2	Focal Length Tolerance (%):
60-40	Surface Quality:
BBAR (800-4000nm)	Coating:
800 - 4000	Wavelength Range (nm):
>90	Transmission (%):
<λ/2 @ 633nm	Transmitted Wavefront Error, RMS:
Threading & Mounting	
1.035 x 40 TPI	Mounting Threads:
Regulatory Compliance	
View	Certificate of Conformance:

Product Details

- Broadband Color-Corrected Design
- >90% Transmission from 800 to 4000nm
- Ideal for Hyperspectral Imaging Applications
- [Near-IR \(NIR\) Achromatic Lenses](#) Also Available

Ultra-Broadband Achromatic Lenses feature high broadband transmission greater than 90% from 800 to 4000nm. These doublets are a compact solution for extending an application's operation to the mid-infrared spectrum while correcting for chromatic aberration at 1030nm and 3.5μm. For optimal performance, these lenses are constructed from air-spaced calcium fluoride and sapphire substrates housed within an aluminum barrel. Ultra-Broadband Achromatic Lenses are ideal for use in broadband applications such as hyperspectral imaging, NIR and MMR spectroscopy, photothermal, and broadband light sources such as super-continuum lasers.

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](#).