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



Ultra-Broadband Achromatic Lenses

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

⊖ 1 ⊕ **S\$1,421⁰⁰**

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Volume Pricing

Qty 1-9	S\$1,421.00 each
Qty 10+	S\$1,281.00 each
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General

Lens element is 25.4mm in diameter **Note:**

Broadband Achromatic Lens **Type:**

Physical & Mechanical Properties

22.86 **Clear Aperture CA (mm):**

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](#).