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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$1,421.00

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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

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

Housing Length (mm):
12.7

Construction:
Anodized Aluminum Housing

Optical Properties

Effective Focal Length EFL (mm):
100.00 @ 1030nm

Focal Length Tolerance (%):
±2

Surface Quality:
60-40

Coating:
BBAR (800-4000nm)

Wavelength Range (nm):
800 - 4000

Transmission (%):
>90

Transmitted Wavefront Error, RMS:
<λ/2 @ 633nm

Threading & Mounting

Mounting Threads:
1.035 x 40 TPI

Regulatory Compliance

Certificate of Conformance:
View

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

- 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 MWIR spectroscopy, photothermal, and broadband light sources such as super-continuum lasers.

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