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3.95μm 25mm Diameter, IR Shortpass Filter



Stock #21-254 **20+ In Stock**

A\$944.⁰⁰

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| Volume Pricing | |
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| Qty 1-5 | A\$944.00 each |
| Qty 6-25 | A\$851.20 each |
| Qty 26-49 | A\$808.00 each |
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Product Downloads

General

Shortpass Filter Type:

Physical & Mechanical Properties

25.00 +0.0/-0.2 Diameter (mm):

1.00 ±0.2 Thickness (mm):

Optical Properties

0 **Angle of Incidence (°):**

≥3.0 **Optical Density OD (Average):**

3,950.00 **Cut-Off Wavelength (nm):**

3.95 **Cut-Off Wavelength (μm):**

Silicon **Substrate:**

4190 - 6400 **Rejection Wavelength (nm):**

80-50 **Surface Quality:**

≥85 **Transmission (%):**

3300 - 3850 **Transmission Wavelength (nm):**

3.3 - 3.85 **Transmission Wavelength (μm):**

±2 **Cut-Off Tolerance (%):**

4.19 - 6.4 **Rejection Wavelength (μm):**

Environmental & Durability Factors

ML-C-48497A, Section 4.5.3 **Durability:**

Regulatory Compliance

Compliant **RoHS 2015:**

View **Certificate of Conformance:**

Compliant **Reach 251:**

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](#).

Product Details

- ≥85% Average Transmission over a Broad Infrared Wavelength Range
- OD ≥3.0 Blocking Across Rejection Band
- Common Wavelengths for Environmental and Medical Applications

Infrared (IR) Shortpass Filters are designed to provide ≥85% average transmission across their transmission band and OD ≥3.0 blocking across their rejection band. With cut-off wavelengths ranging from 3.95 to 13.3μm, these shortpass filters provide coverage across the IR spectrum. Featuring durable coatings and optical-quality Silicon and Germanium substrates, these filters can withstand normal cleaning and handling associated with high-quality optical components. Infrared (IR) Shortpass Filters are ideal for a wide range of imaging and detection applications in environmental sciences, life sciences, and medical diagnostics. These filters can be used in combination with [Infrared \(IR\) Longpass Filters](#) to create custom bandwidth filters and fine tune optical systems.

Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools

Compatible Mounts
