

## 4.25μm 25mm Diameter, IR Shortpass Filter



Stock **#21-255** 8 In Stock

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+

A\$944<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | A\$944.00 each                |
| Qty 6-25       | A\$851.20 each                |
| Qty 26-49      | A\$808.00 each                |
| Need More?     | <a href="#">Request Quote</a> |

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):       |
| 4,250.00           | Cut-Off Wavelength (nm):            |
| 4.25               | Cut-Off Wavelength (μm):            |
| Silicon            | Substrate: <input type="checkbox"/> |
| 4510 - 7000        | Rejection Wavelength (nm):          |
| 80-50              | Surface Quality:                    |
| ≥85                | Transmission (%):                   |
| 3300 - 4150        | Transmission Wavelength (nm):       |
| 3.3 - 4.15         | Transmission Wavelength (μm):       |
| ±2                 | Cut-Off Tolerance (%):              |
| 4.51 - 7           | 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:                  |

## 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

## 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

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