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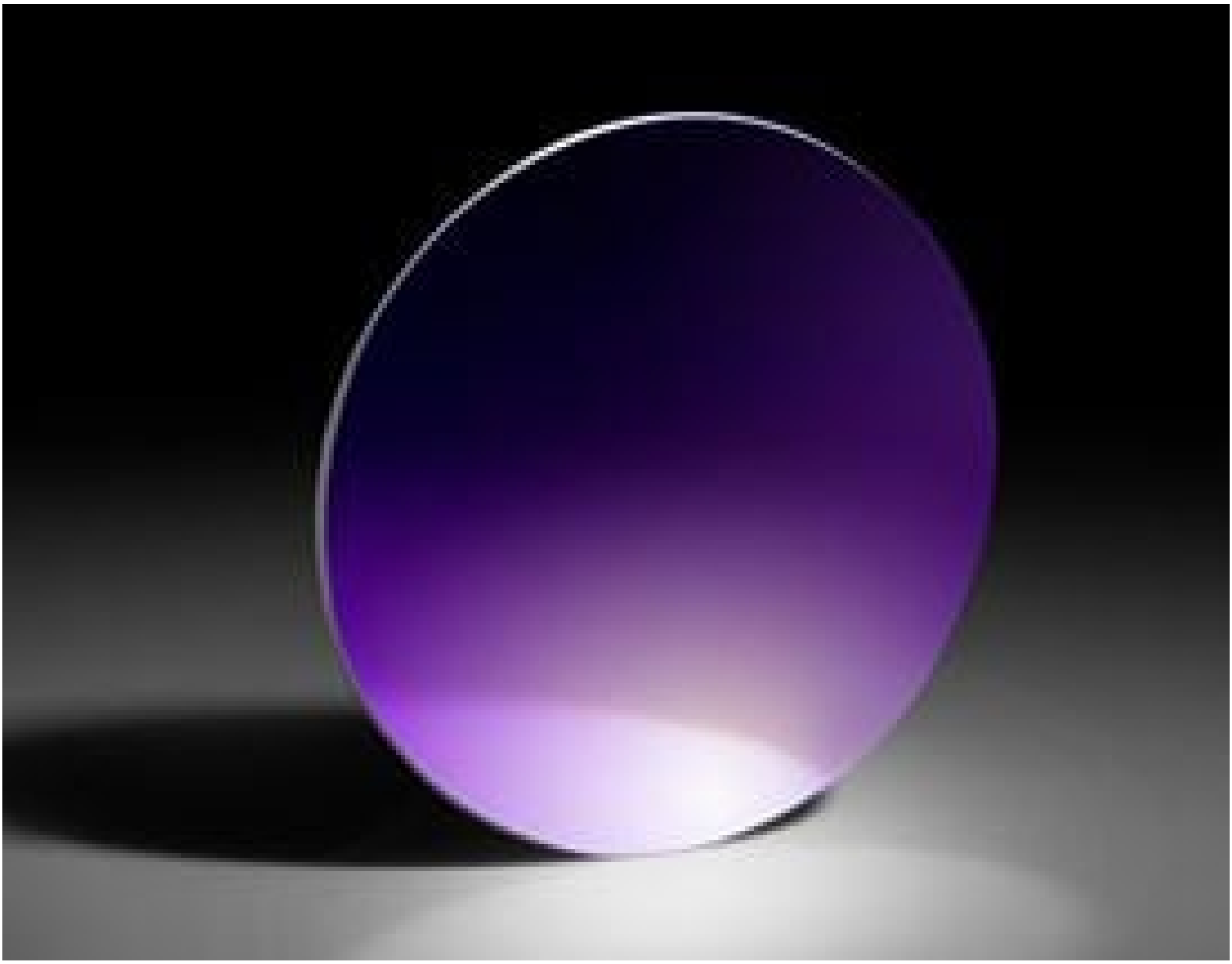
5.0µm 25mm Diameter, IR Shortpass Filter



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General

Type:

Shortpass Filter

Physical & Mechanical Properties

Diameter (mm):

25.00 +0.0/-0.2

Thickness (mm):

1.00 ±0.2

Optical Properties

Angle of Incidence (°):

0	
Optical Density OD (Average):	
≥3.0	
Cut-Off Wavelength (nm):	
5,000.00	
Cut-Off Wavelength (µm):	
5	
Substrate:	
Silicon	
Rejection Wavelength (nm):	
5300 - 11000	
Surface Quality:	
80-50	
Transmission (%):	
≥85	
Transmission Wavelength (nm):	
3000 - 4850	
Transmission Wavelength (µm):	
3 - 4.85	
Cut-Off Tolerance (%):	
±2	
Rejection Wavelength (µm):	
5.3 - 11	

Environmental & Durability Factors

Durability:
MIL-C-48497A, Section 4.5.3

Regulatory Compliance

RoHS 2015:
Compliant
Certificate of Conformance:
View
Reach 233:
Compliant
Country of Origin:
United States
Imported By:
Edmund Optics India Private Limited

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.**

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