

4.50µm, 50mm Diameter, Infrared Longpass Filter



Infrared (IR) Longpass Filters

Stock **#68-661** **1 In Stock**

⊖ 1 ⊕ £1,036⁰⁰

ADD TO CART

Volume Pricing

Qty 1+	£1,036.00 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Longpass Filter **Type:**

Transmission at cut-on wavelength is 5% of peak transmission. **Note:**

Physical & Mechanical Properties

50.00 +0.0/-0.1 **Diameter (mm):**

1.00 ±0.2	Thickness (mm):
<10	Parallelism (arcmin):
90	Clear Aperture (%):
Optical Properties	
≥3.0	Optical Density OD (Average):
4,500.00	Cut-On Wavelength (nm):
Germanium (Ge)	Substrate: <input type="checkbox"/>
Traditional Coated	Coating:
80-50	Surface Quality:
>85 (average)	Transmission (%):
4730 - 9000	Transmission Wavelength (nm):
4.73 - 9.00	Transmission Wavelength (μm):
200 - 4500	Blocking Wavelength Range (nm):
<7	Slope Factor (%):
4.50 ±0.18	Cut-On Wavelength (μm):
3 - 5λ	Surface Flatness (P-V):

Environmental & Durability Factors	
-62 to +71	Operating Temperature (°C):

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	REACH 241:

Product Details

- Coated on Silicon or Germanium Substrates
- Ideal for Isolating Broad Spectral Regions
- Durable, First-Surface Coatings

• **Due to material supply chain disruptions with germanium, there may be increased lead times and price changes on our germanium products. For more information, please contact our customer service team.**

Infrared (IR) Longpass Filters provide a sharp cut-off below a particular wavelength. Often used for order sorting, they isolate broad regions of the spectrum, simultaneously providing high transmission of desired energy, and deep rejection of unwanted energy. These filters are constructed of hard, durable first-surface dielectric coatings on optical-quality IR-transmitting substrates. Infrared (IR) Longpass Filters are able to withstand normal cleaning and handling associated with any high-quality optical component because of their make-up. These filters are particularly useful for FTIR spectroscopy and Thermal Imaging Applications. For custom sizes and coating requirements, please contact our [Sales Department](#).

Technical Information



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
