

TECHSPEC[®] 550nm 12.5mm Dia., High Performance Longpass Filter



High Performance OD 4.0 Longpass Filters

Stock #62-977 20+ In Stock

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1

+

€199⁰⁰

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Volume Pricing	
Qty 1-5	€199,00 each
Qty 6-25	€159,00 each
Qty 26-49	€149,25 each
Need More?	Request Quote

i Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Longpass Filter

Type:

Arrow on part indicates filter coated surface.

Note:

Physical & Mechanical Properties

Diameter (mm):

12.50 +0.0/-0.2	
2.00 ±0.1	Thickness (mm):
>80	Clear Aperture (%):
Physical Durability: Adhesion per MIL-PRF-13830B, Section C.4.5.12 Moderate abrasion per MIL-PRF-13830B, Section C.4.5.11 Cleaning per MIL-C-48497A Section 4.5.4.2	
Optical Properties	
0	Angle of Incidence (°):
≥4.0	Optical Density OD (Average):
550.00	Cut-On Wavelength (nm):
Fused Silica (Corning 7980)	Substrate: □
Hard Coated	Coating:
200 - 539	Rejection Wavelength (nm):
60-40	Surface Quality:
≥91	Transmission (%):
560 - 1650	Transmission Wavelength (nm):
≤λ/4 @ 633nm (prior to coating)	Transmitted Wavefront, RMS:
±1	Cut-On Tolerance (%):
<1	Slope Factor (%):
Coating Specification: Surface 1: Hard Dielectric Sputtered Surface 2: AR Coated	
200 - 1650	Wavelength Range (nm):
Environmental & Durability Factors	
Environmental Durability: Humidity per MIL-STD-810H, Section 507.6 Temperature per MIL-STD-810H, Section 501.7 and 502.7	
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

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

- Cut-On Slope <1%
- Rejection OD ≥ 4.0
- ≥91% Transmission in Pass Band
- Variety of [OD 4.0 Longpass Filter Kits](#) Available

TECHSPEC® High Performance OD 4.0 Longpass Filters feature high transmission in the pass band combined with superior blocking in the rejection band. Due to a rejection band optical density of 4.0 combined with >91% in the pass band, these filters are ideal for a wide variety of applications. TECHSPEC® High Performance OD 4.0 Longpass Filters are hard coated, with a hard dielectric sputtered as the first surface and AR coating as the second. Eliminate stray light by creating custom bandpass filters when combined with [TECHSPEC® High Performance Shortpass Filters](#).

Note: These filters are optimized for high spectral performance rather than high Laser Induced Damage Thresholds (LIDT). A typical LIDT for these filters is 1 J/cm² @ 532nm, 10ns. Please [contact us](#) if you require a filter with a higher LIDT value.

[TECHSPEC® Rotating Filter Wheel](#) can be used for applications requiring a variety of filters.

Technical Information



Compatible Mounts