

**TECHSPEC® 725nm 50mm Dia., High Performance Longpass Filter**



High Performance OD 4.0 Longpass Filters

Stock **#86-076** **11 In Stock**

⊖ 1 ⊕ C\$812<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	C\$812.00 each
Qty 6-25	C\$649.60 each
Qty 26-49	C\$609.00 each
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Product Downloads

**General**

Longpass Filter **Type:**

Arrow on part indicates filter coated surface. **Note:**

**Physical & Mechanical Properties**

50.00 +0.0/-0.2 **Diameter (mm):**

5.00 ±0.1	<b>Thickness (mm):</b>
>80	<b>Clear Aperture (%):</b>
<b>Physical Durability:</b> Adhesion per ML-PRF-13830B, Section C.4.5.12 Moderate abrasion per ML-PRF-13830B, Section C.4.5.11 Cleaning per ML-C-48497A Section 4.5.4.2	
<b>Optical Properties</b>	
0	<b>Angle of Incidence (°):</b>
≥4.0	<b>Optical Density OD (Average):</b>
725.00	<b>Cut-On Wavelength (nm):</b>
<a href="#">Fused Silica</a> (Coming 7980)	<b>Substrate:</b> <input type="checkbox"/>
Hard Coated	<b>Coating:</b>
200 - 705	<b>Rejection Wavelength (nm):</b>
60-40	<b>Surface Quality:</b>
≥91	<b>Transmission (%):</b>
735 - 1650	<b>Transmission Wavelength (nm):</b>
≤λ/4 @ 633nm (prior to coating)	<b>Transmitted Wavefront, RMS:</b>
±1	<b>Cut-On Tolerance (%):</b>
<1	<b>Slope Factor (%):</b>
<b>Coating Specification:</b> Surface 1: Hard Dielectric Sputtered Surface 2: AR Coated	
200 - 1650	<b>Wavelength Range (nm):</b>

## Environmental & Durability Factors

<b>Environmental Durability:</b> Humidity per ML-STD-810H, Section 507.6 Temperature per ML-STD-810H, Section 501.7 and 502.7	
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## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 247:</b>

## Product Details

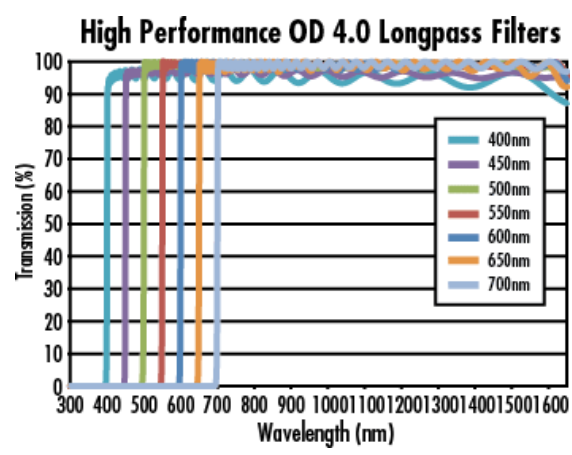
- Cut-On Slope <1%
- Rejection OD ≥ 4.0
- ≥91% Transmission in Pass Band
- Variety of [OD 4.0 Longpass Filter Kits](#) Available

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/cm<sup>2</sup> @ 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



## 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