

TECHSPEC<sup>®</sup> 650nm 25mm Dia., High Performance Longpass Filter



High Performance OD 4.0 Longpass Filters

Stock #62-986 15 In Stock

-

1

+

€275<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €275,00 each                  |
| Qty 6-25       | €220,00 each                  |
| Qty 26-49      | €206,25 each                  |
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**!** Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Longpass Filter

Type:

|                                                                                                                                                                              |                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>Note:</b><br>Arrow on part indicates filter coated surface.                                                                                                               |                                 |
| Physical & Mechanical Properties                                                                                                                                             |                                 |
| 25.00 +0.0/-0.2                                                                                                                                                              | Diameter (mm):                  |
| 3.00 ±0.1                                                                                                                                                                    | Thickness (mm):                 |
| >80                                                                                                                                                                          | Clear Aperture (%):             |
| Physical Durability:<br>Adhesion per MIL-PRF-13830B, Section C.4.5.12<br>Moderate abrasion per MIL-PRF-13830B, Section C.4.5.11<br>Cleaning per MIL-C-48497A Section 4.5.4.2 |                                 |
| Optical Properties                                                                                                                                                           |                                 |
| 0                                                                                                                                                                            | Angle of Incidence (°):         |
| ≥4.0                                                                                                                                                                         | Optical Density OD (Average):   |
| 650.00                                                                                                                                                                       | Cut-On Wavelength (nm):         |
| Fused Silica (Corning 7980)                                                                                                                                                  | Substrate: <input type="text"/> |
| Hard Coated                                                                                                                                                                  | Coating:                        |
| 200 - 637                                                                                                                                                                    | Rejection Wavelength (nm):      |
| 60-40                                                                                                                                                                        | Surface Quality:                |
| ≥91                                                                                                                                                                          | Transmission (%):               |
| 660 - 1650                                                                                                                                                                   | Transmission Wavelength (nm):   |
| ≤λ/4 @ 633nm (prior to coating)                                                                                                                                              | Transmitted Wavefront, RMS:     |
| ±1                                                                                                                                                                           | Cut-On Tolerance (%):           |
| <1                                                                                                                                                                           | Slope Factor (%):               |
| Coating Specification:<br>Surface 1: Hard Dielectric Sputtered<br>Surface 2: AR Coated                                                                                       |                                 |
| 200 - 1650                                                                                                                                                                   | Wavelength Range (nm):          |
| Environmental & Durability Factors                                                                                                                                           |                                 |
| Environmental Durability:<br>Humidity per MIL-STD-810H, Section 507.6<br>Temperature per MIL-STD-810H, Section 501.7 and 502.7                                               |                                 |
| Regulatory Compliance                                                                                                                                                        |                                 |
| Compliant                                                                                                                                                                    | RoHS 2015:                      |
| View                                                                                                                                                                         | Certificate of Conformance:     |
| Compliant                                                                                                                                                                    | Reach 247:                      |

## 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



## 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