

TECHSPEC<sup>®</sup> 1150nm 50.0mm Dia, High Performance Longpass Filter



High Performance OD 4.0 Longpass Filters

Stock **#89-665** **1 In Stock**

-

1

+

₹43,674

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | ₹43,674 each                  |
| Qty 6-25       | ₹37,524 each                  |
| Qty 26-49      | ₹32,152 each                  |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

SPECIFICATIONS

General

Longpass Filter

Type:

Note:

Arrow on part indicates filter coated surface.

Physical & Mechanical Properties

|                                                                                                                                                                              |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 50.00 +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):                                                                |
| 1,150.00                                                     | Cut-On Wavelength (nm):                                                                      |
| Fused Silica (Corning 7980)                                  | Substrate:  |
| Hard Coated                                                  | Coating:                                                                                     |
| 200 - 1130                                                   | Rejection Wavelength (nm):                                                                   |
| 60-40                                                        | Surface Quality:                                                                             |
| ≥91                                                          | Transmission (%):                                                                            |
| 1170 - 1650                                                  | Transmission Wavelength (nm):                                                                |
| ≤λ/4 @ 633nm (prior to coating)                              | Transmitted Wavefront, RMS:                                                                  |
| ±1                                                           | Cut-On Tolerance (%):                                                                        |
| <1                                                           | Slope Factor (%):                                                                            |
| Surface 1: Hard Dielectric Sputtered<br>Surface 2: AR Coated | Coating Specification:                                                                       |
| 200 - 1650                                                   | Wavelength Range (nm):                                                                       |

Environmental & Durability Factors

|                                                                                                   |                           |
|---------------------------------------------------------------------------------------------------|---------------------------|
| Humidity per MIL-STD-810H, Section 507.6<br>Temperature per MIL-STD-810H, Section 501.7 and 502.7 | Environmental Durability: |
|---------------------------------------------------------------------------------------------------|---------------------------|

Regulatory Compliance

|           |                             |
|-----------|-----------------------------|
| Compliant | RoHS 2015:                  |
| View      | Certificate of Conformance: |
| Compliant | Reach 247:                  |

PRODUCT DETAILS

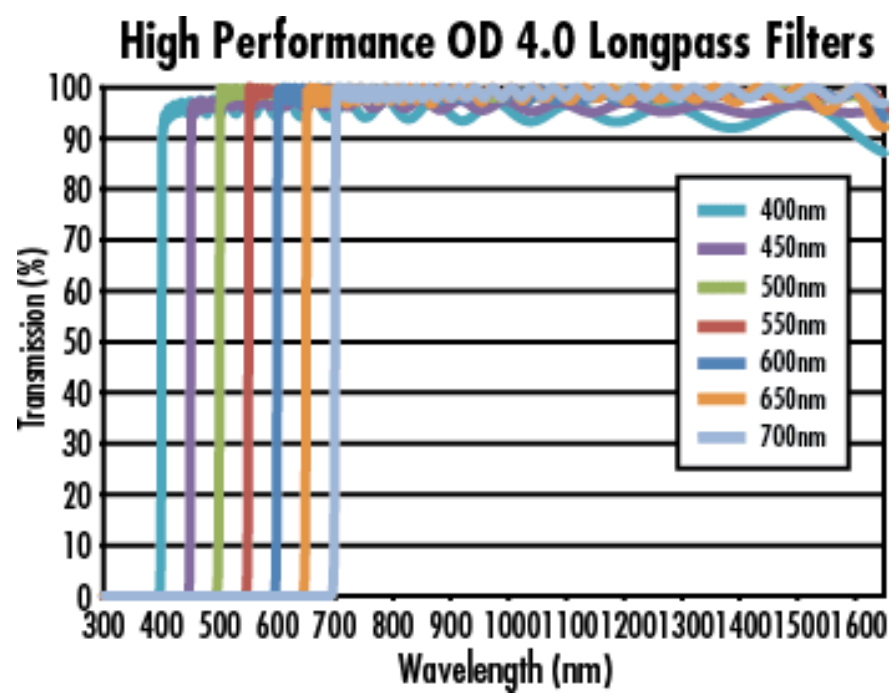
- Cut-On Slope <1%
- Rejection OD ≥ 4.0
- ≥91% Transmission in Pass Band
- Variety of [OD 4.0 Longpass Filter Kits](#) Available

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/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