

TECHSPEC<sup>®</sup> 700nm 50mm Dia., High Performance Longpass Filter



High Performance OD 4.0 Longpass Filters

Stock **#84-760** **9 In Stock**

-

1

+

A\$904<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | A\$904.00 each                |
| Qty 6-25       | A\$723.20 each                |
| Qty 26-49      | A\$678.00 each                |
| Need More?     | <a href="#">Request Quote</a> |

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                                                                                                                                                                        | Thickness (mm):               |
| >80                                                                                                                                                                              | Clear Aperture (%):           |
| <b>Physical Durability:</b><br>Adhesion per ML-PRF-13830B, Section C.4.5.12<br>Moderate abrasion per ML-PRF-13830B, Section C.4.5.11<br>Cleaning per ML-C-48497A Section 4.5.4.2 |                               |
| Optical Properties                                                                                                                                                               |                               |
| 0                                                                                                                                                                                | Angle of Incidence (°):       |
| ≥4.0                                                                                                                                                                             | Optical Density OD (Average): |
| 700.00                                                                                                                                                                           | Cut-On Wavelength (nm):       |
| Fused Silica (Corning 7980)                                                                                                                                                      | Substrate: □                  |
| Hard Coated                                                                                                                                                                      | Coating:                      |
| 200 - 686                                                                                                                                                                        | Rejection Wavelength (nm):    |
| 60-40                                                                                                                                                                            | Surface Quality:              |
| ≥91                                                                                                                                                                              | Transmission (%):             |
| 710 - 1650                                                                                                                                                                       | Transmission Wavelength (nm): |
| ≤λ/4 @ 633nm (prior to coating)                                                                                                                                                  | Transmitted Wavefront, RMS:   |
| ±1                                                                                                                                                                               | Cut-On Tolerance (%):         |
| <1                                                                                                                                                                               | Slope Factor (%):             |
| <b>Coating Specification:</b><br>Surface 1: Hard Dielectric Sputtered<br>Surface 2: AR Coated                                                                                    |                               |
| 200 - 1650                                                                                                                                                                       | Wavelength Range (nm):        |

|                                                                                                                                     |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--|
| Environmental & Durability Factors                                                                                                  |  |
| <b>Environmental Durability:</b><br>Humidity per ML-STD-810H, Section 507.6<br>Temperature per ML-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/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