

TECHSPEC<sup>®</sup> 825nm 50mm Dia., High Performance Longpass Filter



High Performance OD 4.0 Longpass Filters

Stock **#86-078** **5 In Stock**

-

1

+

€580<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €580,00 each                  |
| Qty 6-25       | €464,00 each                  |
| Qty 26-49      | €435,00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

 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):

|                 |                                                        |
|-----------------|--------------------------------------------------------|
| 50.00 +0.0/-0.2 |                                                        |
| 5.00 ±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 ML-C-48497ASection 4.5.4.2                |

| Optical Properties                                           |                                     |
|--------------------------------------------------------------|-------------------------------------|
| 0                                                            | Angle of Incidence (°):             |
| ≥4.0                                                         | Optical Density OD (Average):       |
| 825.00                                                       | Cut-On Wavelength (nm):             |
| Fused Silica (Corning 7980)                                  | Substrate: <input type="checkbox"/> |
| Hard Coated                                                  | Coating:                            |
| 200 - 805                                                    | Rejection Wavelength (nm):          |
| 60-40                                                        | Surface Quality:                    |
| ≥91                                                          | Transmission (%):                   |
| 840 - 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 ML-STD-810H, Section 507.6<br>Temperature per ML-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