See all 108 Products in Family

TECHSPEC® 975nm 50mm Dia., High Performance Longpass Filter

High Performance OD 4.0 Longpass Filters

Stock **#86-081** **2 In Stock**

- 1 +

S$812.00

ADD TO CART

Volume Pricing	
Qty 1-5	**S$812.00** each
Qty 6-25	**S$649.60** each
Qty 26-49	**S$609.00** each
Need More?	Request Quote

Product Downloads

General

Type:

Longpass Filter

Note:

Arrow on part indicates filter coated surface.

Physical & Mechanical Properties

Diameter (mm):

50.00 +0.0/-0.2

Thickness (mm):
5.00 ±0.1

Clear Aperture (%):
>80

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 MIL-C-48497A Section 4.5.4.2

Optical Properties

Angle of Incidence (°):
0

Optical Density OD (Average):
≥4.0

Cut-On Wavelength (nm):
975.00

Substrate:
Fused Silica (Corning 7980)

Coating:
Hard Coated

Rejection Wavelength (nm):
200 - 955

Surface Quality:
60-40

Transmission (%):
≥91

Transmission Wavelength (nm):
990 - 1650

Transmitted Wavefront, RMS:
≤*N*4 @ 633nm (prior to coating)

Cut-On Tolerance (%):
±1

Slope Factor (%):
<1

Coating Specification:
Surface 1: Hard Dielectric Sputtered
Surface 2: AR Coated

Wavelength Range (nm):
200 - 1650

Environmental & Durability Factors

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

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 247:
Compliant

Need different specs or modifications?

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.

Product Details

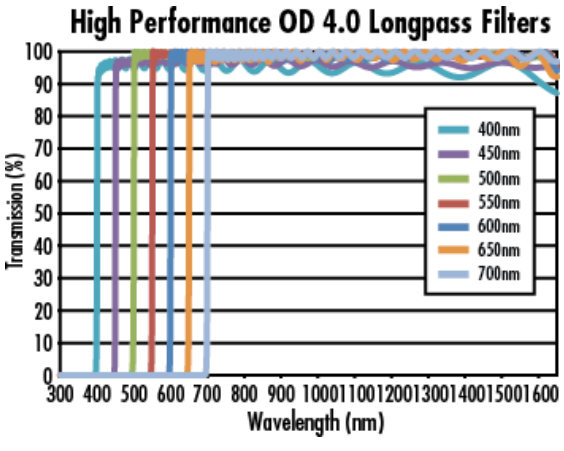
- Cut-On Slope <1%
- Rejection OD ≥ 4.0
- ≥91% Transmission in Pass Band
- Variety of OD 4.0 Longpass Filter Kits Available

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^2 @ 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



Compatible Mounts

;