

# TECHSPEC® 825nm 25mm Dia., High Performance Longpass Filter



Stock #86-070 **5 In Stock**

1 **C\$392<sup>.00</sup>**

**ADD TO CART**

High Performance OD 4.0 Longpass Filter

Volume Pricing	
Qty 1-5	C\$392.00 each
Qty 6-25	C\$313.60 each
Qty 26-49	C\$294.00 each
Need More?	<a href="#">Request Quote</a>

Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
eDrawing:eprt	
EO Spec Sheet	<a href="#">Download All</a>

## General

<b>Type:</b> Longpass Filter	<b>Note:</b> Arrow on part indicates filter coated surface.
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## Physical & Mechanical Properties

<b>Diameter (mm):</b> 25.00 +0.0/-0.2	<b>Thickness (mm):</b> 3.00 ±0.1
<b>Clear Aperture (%):</b> >80	<b>Physical Durability:</b> 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

<b>Angle of Incidence (°):</b> 0	<b>Optical Density OD (Average):</b> ≥4.0
<b>Cut-On Wavelength (nm):</b> 825.00	<b>Substrate:</b> <b>Fused Silica</b> (Corning 7980)
<b>Coating:</b> Hard Coated	<b>Rejection Wavelength (nm):</b> 200 - 805
<b>Surface Quality:</b> 60-40	<b>Transmission (%):</b> ≥91
<b>Transmission Wavelength (nm):</b> 840 - 1650	<b>Transmitted Wavefront, RMS:</b> ≤λ/4 @ 633nm (prior to coating)
<b>Cut-On Tolerance:</b> ±1	<b>Slope Factor (%):</b> <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<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

## Related Products



Manual Cage Filter Wheel



Fixed/Multiple Filter Mounts



Cotton-Tipped Swab Applicators



OD 4.0 High Performance Shortpass and Longpass Filter Kits

### Frequently Purchased Together



#32-757 - SCHOTT RG-780, 25.4mm Dia., 3mm Thick, Colored Glass Longpass Filter  
C\$73.50

#32-758 - SCHOTT RG-830, 25.4mm Dia., 3mm Thick, Colored Glass Longpass Filter  
C\$46.20

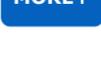
#34-296 - 325nm 25mm Dia., High Performance Longpass Filter  
C\$385.00

#27-515 - 200mm Dia x 800mm Focal Length, PCX Condenser Lens  
C\$543.20

### Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	25.0/25.4mm Optic Dia., SM1 Thin Mount, M4	Fixed		#13-787	C\$29.40 <a href="#">Request Quote</a>	9 In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., SM1 Thin Mount, 8-32	Fixed		#13-788	C\$29.40 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
	25.0mm Optic Dia., Optic Mount	Fixed		#64-560	C\$45.85 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., E-Series Kinematic Mount	Adjustable - Tip-Tilt		#15-866	C\$60.90 <a href="#">Request Quote</a>	10 In Stock <input type="text" value="1"/>
	2.0 - 35.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-668	C\$88.20 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., L-Slot Direct Mount	Fixed		#36-410	C\$95.20 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., Side Flange Direct Mount	Fixed		#36-414	C\$99.40 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
	9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#36-605	C\$116.20 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>

	Title	Type	Compare	Stock Number	Price	Buy
 	25.0/25.4mm Optic Dia., Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#58-851	C\$137.90 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-411	C\$142.80 <a href="#">Request Quote</a>	5 In Stock <input type="text" value="1"/> 
 	5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-529	C\$142.80 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., Optical Cell Assembly	Fixed		#36-461 <b>CLEARANCE</b>	C\$143.93 <a href="#">Request Quote</a>	2 In Stock <input type="text" value="1"/> 
 	7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	C\$148.40 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#58-854	C\$149.80 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
 	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	C\$151.20 <a href="#">Request Quote</a>	<b>CONTACT US</b> <input type="text" value="1"/> 
 	19.5 - 108.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-670	C\$159.60 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
 	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	C\$162.40 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
 	8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	C\$168.00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/> 
 	4.0 - 36.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-077	C\$219.80 <a href="#">Request Quote</a>	5 In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., Stainless Steel Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#26-815	C\$225.40 <a href="#">Request Quote</a>	4 In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., Stainless Steel Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#26-818	C\$254.80 <a href="#">Request Quote</a>	9 In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-956	C\$386.40 <a href="#">Request Quote</a>	<b>CONTACT US</b> <input type="text" value="1"/> 
 	5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	C\$574.00 <a href="#">Request Quote</a>	<b>CONTACT US</b> <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., Precision Gimbal Mount	Adjustable - Gimbal		#54-999	C\$645.40 <a href="#">Request Quote</a>	4 In Stock <input type="text" value="1"/> 

	Title	Type	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a> 	25.0/25.4mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-959	C\$756.00 <a href="#">Request Quote</a>	6 In Stock <input type="text" value="1"/> 
<a href="#">MORE+</a> 	25.0/25.4mm Optic Dia., 5 Axes Optical Mount	Adjustable - Linear (XYZ) & Tip-Tilt		#13-776	C\$1,057.00 <a href="#">Request Quote</a>	2 In Stock <input type="text" value="1"/> 

Check out our full selection of mounts [here](#).

## Resources

### Media Type

- Application Note
- Video
- Published Article
- FAQ
- Glossary
- Trending in Optics

**APPLICATION NOTE**

The Importance of Optical Filter Orientation...

**APPLICATION NOTE**

Custom Bandpass Filter Using Shortpass an...

**VIDEO**

Optical Filters Review

**VIDEO**

Optical Filter Coatings: Comparison of Traditional a...

**PUBLISHED ARTICLE**

Selecting Color Filter Glass for Life Science Applications

**FAQ**

What type of material should I look for in a filter?

[View More](#)