

# TECHSPEC® 1075nm 50mm Diameter, OD 4.0 Shortpass Filter



Stock #86-118 [CONTACT US](#)

1 **MRP ₹60,534**

Price inclusive of all taxes

**ADD TO CART**

High Performance OD 4.0 Shortpass Filter

Volume Pricing	
Qty 1-5	₹60,534 each
Qty 6-25	₹48,427 each
Qty 26-49	₹44,593 each
Need More?	<a href="#">Request Quote</a>

**Product Downloads**

- STEP:step
- Curve:pdf
- PDF Drawing:pdf
- IGES:igs
- eDrawing:eprt
- EO Spec Sheet
- [Download All](#)

## General

**Type:** Shortpass 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-Off Wavelength (nm):** 1,075.00

**Substrate:** [Fused Silica](#) (Corning 7980)

**Coating:** Hard Coated

**Rejection Wavelength (nm):** 1110 - 1495

**Surface Quality:** 60-40

**Transmission (%):** ≥91

**Transmission Wavelength (nm):** 505 - 1060

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

<b>Slope Factor (%)</b> : <1	<b>Cut-Off Tolerance (%)</b> : ±1
<b>Wavelength Range (nm)</b> : 505 - 1495	
<b>Environmental &amp; Durability Factors</b>	
<b>Environmental Durability</b> : Humidity per MIL-STD-810H, Section 507.6 Temperature per MIL-STD-810H, Section 501.7 and 502.7	
<b>Regulatory Compliance</b>	
<b>RoHS 2015</b> : <b>Compliant</b>	<b>Certificate of Conformance</b> : <b>View</b>
<b>Reach 247</b> : <b>Compliant</b>	
<b>Country of Origin</b> : United States	<b>Imported By</b> : Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91-80-6845 0000

## 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

- Broad Transmission and Rejection Ranges
- Sharp Slope for Effective Spectral Discrimination
- Combine with Longpass Filter for Custom Bandpass Ranges

High Performance OD 4.0 Shortpass Filters are designed with superior blocking in the rejection band while maximizing transmission in the pass band. They have a rejection band optical density of 4.0 that is combined with ≥ 91% in the pass band. This enables these filters to be ideal for a wide variety of applications. High Performance OD 4.0 Shortpass Filters can be combined with our [TECHSPEC® OD 4.0 Longpass Filters](#) to create a customized precision bandpass filter. The VIS Shortpass Filter Kits include 7 filters between 400–700nm and both are ideal for integration with our filter wheels.

**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.

## 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



#64-567 - 50.0mm Optic Dia., Optic Mount  
₹4,969


#66-241 - 1100nm 25mm Dia., High Performance Longpass Filter  
₹28,754


#84-734 - 1050nm 50mm Diameter, OD 4.0 Shortpass Filter  
₹60,534








































 


#84-735 - 1100nm 50mm Diameter, OD 4.0 Shortpass Filter  
₹60,534

## Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	50.0mm Optic Dia., Optic Mount	Fixed		#64-567	₹4,969 <a href="#">Request Quote</a>	4 In Stock <input type="text" value="1"/> <input type="button" value="🛒"/>
<a href="#">MORE+</a>	50.0mm Optic Dia., Optic Mount	Fixed		#64-568	₹4,969 <a href="#">Request Quote</a>	7 In Stock <input type="text" value="1"/> <input type="button" value="🛒"/>
<a href="#">MORE+</a>	9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#36-605	₹8,374 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/> <input type="button" value="🛒"/>
<a href="#">MORE+</a>	50.0/50.8mm Optic Dia., E-Series Kinematic Mount	Adjustable - Tip-Tilt		#15-867	₹9,685 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/> <input type="button" value="🛒"/>
<a href="#">MORE+</a>	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	₹10,896 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/> <input type="button" value="🛒"/>
<a href="#">MORE+</a>	19.5 - 108.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-670	₹11,501 <a href="#">Request Quote</a>	1 In Stock <input type="text" value="1"/> <input type="button" value="🛒"/>
<a href="#">MORE+</a>	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	₹11,703 <a href="#">Request Quote</a>	6 In Stock <input type="text" value="1"/> <input type="button" value="🛒"/>

	Title	Type	Compare	Stock Number	Price	Buy
 	8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	₹12,107 Request Quote	10 In Stock <input type="text" value="1"/> 
 	50.0/50.8mm Optic Dia., Optical Cell Assembly	Fixed		#36-465 CLEARANCE	₹12,739 Request Quote	2 In Stock <input type="text" value="1"/> 
 	50.0/50.8mm Optic Dia., Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#58-852	₹13,621 Request Quote	5 In Stock <input type="text" value="1"/> 
 	50.0/50.8mm Optic Dia., Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#58-855	₹15,840 Request Quote	20+ In Stock <input type="text" value="1"/> 
 	50.0/50.8mm Optic Dia., Stainless Steel Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#26-816	₹24,819 Request Quote	12 In Stock <input type="text" value="1"/> 
 	50.0/50.8mm Optic Dia., Stainless Steel Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#26-819	₹27,039 Request Quote	CONTACT US <input type="text" value="1"/> 
 	50.0/50.8mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-957	₹31,074 Request Quote	1 In Stock <input type="text" value="1"/> 
 	50.0/50.8mm Optic Dia., Kinematic Mirror Mount	Adjustable - Tip-Tilt		#55-005	₹36,422 Request Quote	6 In Stock <input type="text" value="1"/> 
 	50.0/50.8mm Optic Dia., Kinematic Mirror Mount with Micrometer	Adjustable - Tip-Tilt		#56-326	₹39,045 Request Quote	CONTACT US <input type="text" value="1"/> 
 	5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	₹41,365 Request Quote	CONTACT US <input type="text" value="1"/> 
 	50.0/50.8mm Optic Dia., Precision Gimbal Mount	Adjustable - Gimbal		#55-000	₹51,454 Request Quote	7 In Stock <input type="text" value="1"/> 
 	50.0/50.8mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-960	₹61,039 Request Quote	20+ In Stock <input type="text" value="1"/> 
 	50.0/50.8mm Optic Dia., 5 Axes Optical Mount	Adjustable - Linear (XYZ) & Tip-Tilt		#13-778	₹84,748 Request Quote	10 In Stock <input type="text" value="1"/> 

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

## Resources

Media Type

 APPLICATION NOTE

 APPLICATION NOTE

 VIDEO

Optical Filters Review

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

The Importance of Optical Filter Orientation....

Custom Bandpass Filter using Shortpass an...

▶ 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](#)