

TECHSPEC® 600nm 12.5mm Dia., High Performance Longpass Filter



Stock #62-978 20+ In Stock

1 MRP ₹20,078

Price inclusive of all taxes

ADD TO CART

High Performance OD 4.0 Longpass Filter

Volume Pricing	
Qty 1-5	₹20,078 each
Qty 6-25	₹16,042 each
Qty 26-49	₹15,058 each
Need More?	Request Quote

Product Downloads

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

General

Type: Longpass Filter

Note: Arrow on part indicates filter coated surface.

Physical & Mechanical Properties

Diameter (mm): 12.50 +0.0/-0.2

Thickness (mm): 2.00 ±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): 600.00

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

Coating: Hard Coated

Rejection Wavelength (nm): 200 - 588

Surface Quality: 60-40

Transmission (%): ≥91

Transmission Wavelength (nm): 610 - 1650

Transmitted Wavefront, RMS: ≤λ/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**

Country of Origin: United States

Imported By: 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

- 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/cm² @ 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



#32-479 - 25.0mm Dia. x 75.0mm FL Uncoated, Plano-Convex Lens
₹3,305

Qty



#32-481 - 25.0mm Dia. x 100.0mm FL Uncoated, Plano-Convex Lens
₹3,305

Qty



#32-513 - 25 x 35mm Enhanced Aluminum, λ/4 Mirror
₹8,071

Qty













































#32-746 - 6.0mm Diameter, N-BK7 Ball Lens
₹4,792

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	12.5/12.7mm Optic Dia., SM05 Thin Mount, M4	Fixed		#13-789	₹1,967 Request Quote	20+ In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., SM05 Thin Mount, 8-32	Fixed		#13-790	₹1,967 Request Quote	2 In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., L-Slot Direct Mount	Fixed		#36-416	₹5,953 Request Quote	1 In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., Side Flange Direct Mount	Fixed		#36-418	₹5,953 Request Quote	1 In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#58-850	₹9,383 Request Quote	20+ In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-417	₹9,736 Request Quote	12 In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., Compact Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#34-720	₹10,190 Request Quote	14 In Stock <input type="text" value="1"/>

	Title	Type	Compare	Stock Number	Price	Buy
 	5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-529	₹10,291 Request Quote	20+ In Stock <input type="text" value="1"/> 
 	12.5/12.7mm Optic Dia., Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#58-853	₹10,493 Request Quote	14 In Stock <input type="text" value="1"/> 
 	7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	₹10,694 Request Quote	2 In Stock <input type="text" value="1"/> 
 	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	₹10,896 Request Quote	CONTACT US <input type="text" value="1"/> 
 	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	₹11,703 Request Quote	6 In Stock <input type="text" value="1"/> 
 	12.5/12.7mm Optic Dia., Compact Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#34-721	₹11,805 Request Quote	20+ In Stock <input type="text" value="1"/> 
 	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"/> 
 	4.0 - 36.0mm Optic Dia., Self- Centering Jaw Clamp	Fixed		#16-077	₹15,840 Request Quote	6 In Stock <input type="text" value="1"/> 
 	12.5/12.7mm Optic Dia., Stainless Steel Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#26-814	₹16,244 Request Quote	20+ In Stock <input type="text" value="1"/> 
 	12.5/12.7mm Optic Dia., Stainless Steel Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#26-817	₹18,362 Request Quote	20+ In Stock <input type="text" value="1"/> 
 	12.5/12.7mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-955	₹26,333 Request Quote	5 In Stock <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"/> 
 	12.5/12.7mm Optic Dia., Precision Gimbal Mount	Adjustable - Gimbal		#84-640	₹42,475 Request Quote	7 In Stock <input type="text" value="1"/> 
 	12.5/12.7mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-958	₹43,282 Request Quote	5 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](#)