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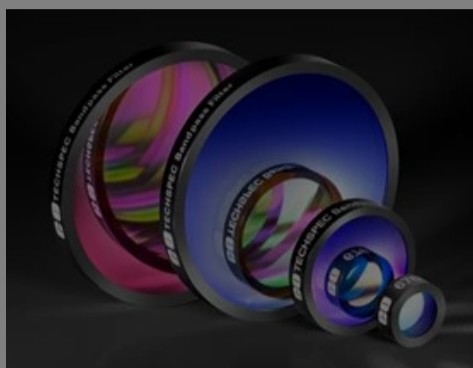
TECHSPEC®

1550nm CWL, 50mm Bandpass Filter

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region: European Union

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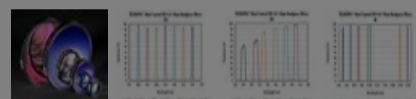
Stock #86-094 **8 In Stock** [Additional Bandwidths](#)

1

€869⁰⁰

ADD TO CART

TECHSPEC Hard Coated OD 4.0 10nm Bandpass Filters



Volume Pricing

Qty 1-5	€869,00 each
Qty 6-25	€695,00 each
Qty 26-49	€651,75 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

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

General

Type: Bandpass Filter

Typical Applications: LIDAR, Telecommunications

Physical & Mechanical Properties

Diameter (mm): 50.00 +0.0/-0.1

Clear Aperture CA (mm): 45

Construction: Mounted in Black Anodized Ring

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

Substrate Thickness (mm): 3.5 ±0.5 typical

Optical Properties

Angle of Incidence (°): 0

Optical Density OD (Average): ≥4.0

Center Wavelength CWL (nm): 1,550.00 ±2.0

Full Width-Half Max FWHM (nm): 10.00 ±2.0

Full Width-Half Max FWHM: ±2.0

Substrate: [i](#) Optical Glass

Tolerance (nm):		Coating: Hard Coated
Minimum Transmission (%):	≥85	
Surface Quality:	80-50	

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Threading & Mounting

Mount Thickness (mm):	5.0 ±0.1
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Environmental & Durability Factors

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

- Ideal for Life Sciences or Chemical Analysis
- Available in UV, VIS, and IR Center Wavelengths
- Feature High Performance Hard Coatings
- Hard Coated OD 4.0 **5nm**, **25nm**, and **50nm** Bandpass Filters Also Available

TECHSPEC® Hard Coated OD 4.0 10nm Bandpass Filters are narrowband filters used extensively in applications including flame photometry, elemental or laser line separation, fluorescence, laser diode cleanup, or chemical detection or analysis. These optical filters offer steep slopes with deep blocking to achieve high performance in demanding applications. TECHSPEC Hard Coated OD 4.0 10nm Bandpass Filters feature durable hard coatings to minimize filter degradation while increasing transmission. The bandpass filters are available in UV, VIS, and IR center wavelengths.

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.

Technical Information

Accessories

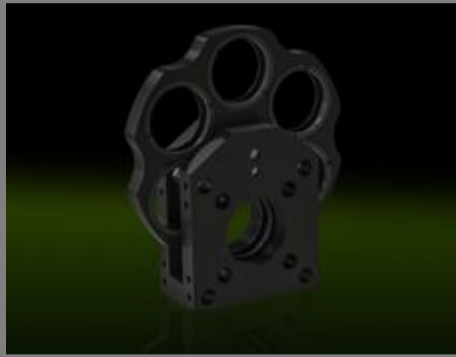
Note: Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
MORE+	12.5mm Dia., Nd:YAG Hard Coated OD 4.0 10nm Bandpass Filter		#15-097	€700,00	CONTACT US 1
MORE+	25mm Dia., Nd:YAG Hard Coated OD 4.0 10nm Bandpass Filter				CONTACT US 1
MORE+	50mm Dia., Nd:YAG Hard Coated OD 4.0 10nm Bandpass Filter				CONTACT US 1

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Related Products



Manual Cage Filter Wheel



C, S, and T-Mount Circular Optic Mounts

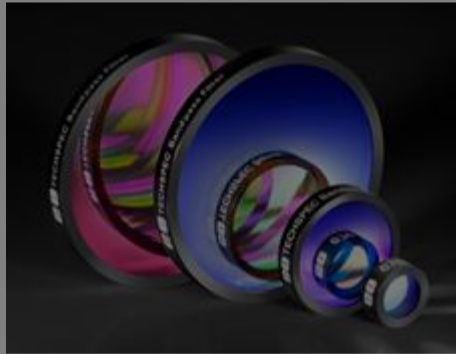


Cotton-Tipped Swab Applicators



Hard Coated OD 4.0 5nm Bandpass Filters

Frequently Purchased Together



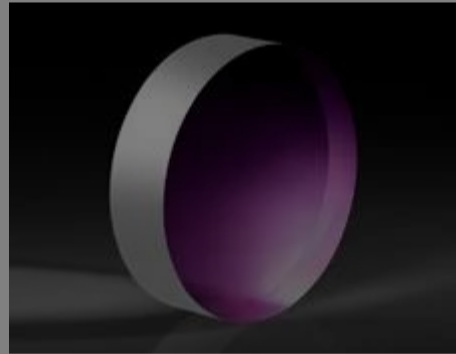
#65-246 - 940nm CWL, 50mm Dia., Hard Coated OD 4.0 10nm Bandpass Filter
€710,00

Qty



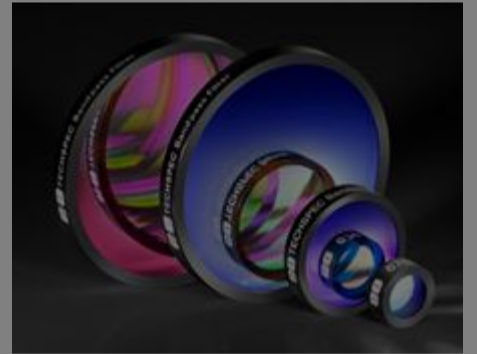
#34-316 - 50mm Ultra Broadband Wire Grid Linear Polarizer
€2.975,00

Qty



#34-428 - 50mm Dia., 2mm Thick, Uncoated λ/4 N-BK7 Window
€111,00

Qty











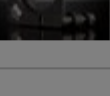

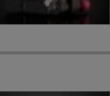

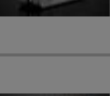

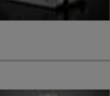





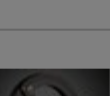







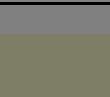



#65-216 - 532nm CWL, 50mm Dia., Hard Coated OD 4.0 10nm Bandpass Filter
€679,00

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
MORE+	50.0mm Optic Dia., Optic Mount	Fixed		#64-567	€49,25 Request Quote	1 In Stock 1
MORE+	50.0mm Optic Dia., Optic Mount	Fixed		#64-568	€49,25 Request Quote	7 In Stock 1
MORE+	9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#36-605	€83,00 Request Quote	20+ In Stock 1
MORE+	50.0/50.8mm Optic Dia., E-Series Kinematic Mount	Adjustable - Tip-Tilt		#15-867	€96,00 Request Quote	CONTACT US 1

	Title	Type	Compare	Stock Number	Price	Buy
MORE+	 10.0 - 60.0mm Optic Height, English Bar-Type Optic Holder				€108,00	CONTACT US 1 
MORE+	 19.5 - 108.0mm Optic Dia., Tip-Tilt Screw Adjust Ring Mount					20+ In Stock 1 
MORE+	 7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	€116,00 Request Quote	20+ In Stock 1 
MORE+	 50.0/50.8mm Optic Dia., Optical Cell Assembly	Fixed		#36-465 CLEARANCE	€119,95 Request Quote	2 In Stock 1 
MORE+	 8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	€120,00 Request Quote	20+ In Stock 1 
MORE+	 50.0/50.8mm Optic Dia., Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#58-852	€135,00 Request Quote	20+ In Stock 1 
MORE+	 50.0/50.8mm Optic Dia., Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#58-855	€157,00 Request Quote	20+ In Stock 1 
MORE+	 50.0/50.8mm Optic Dia., Stainless Steel Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#26-816	€246,00 Request Quote	12 In Stock 1 
MORE+	 50.0/50.8mm Optic Dia., Stainless Steel Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#26-819	€268,00 Request Quote	CONTACT US 1 
MORE+	 50.0/50.8mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-957	€308,00 Request Quote	1 In Stock 1 
MORE+	 50.0/50.8mm Optic Dia., Kinematic Mirror Mount	Adjustable - Tip-Tilt		#55-005	€361,00 Request Quote	6 In Stock 1 
MORE+	 50.0/50.8mm Optic Dia., Kinematic Mirror Mount with Micrometer	Adjustable - Tip-Tilt		#56-326	€387,00 Request Quote	CONTACT US 1 
MORE+	 5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	€410,00 Request Quote	CONTACT US 1 
MORE+	 50.0/50.8mm Optic Dia., Precision Gimbal Mount	Adjustable - Gimbal		#55-000	€510,00 Request Quote	7 In Stock 1 
MORE+	 50.0/50.8mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-960	€605,00 Request Quote	20+ In Stock 1 
MORE+	 50.0/50.8mm Optic Dia., 5 Axes Optical Mount	Adjustable - Linear (XYZ) & Tip-Tilt		#13-778	€840,00 Request Quote	10 In Stock 1 

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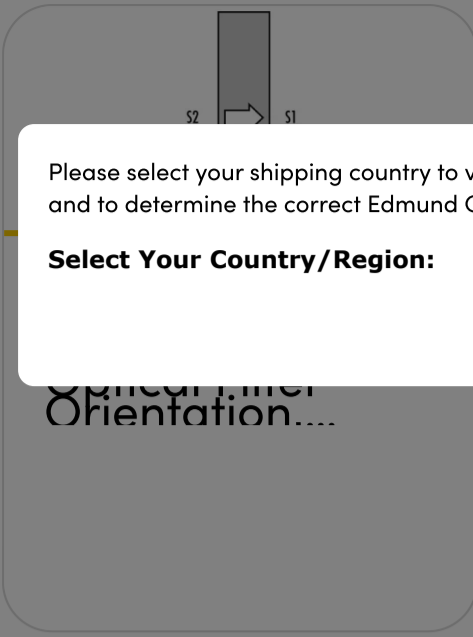
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Check out our full selection of mounts [here](#).

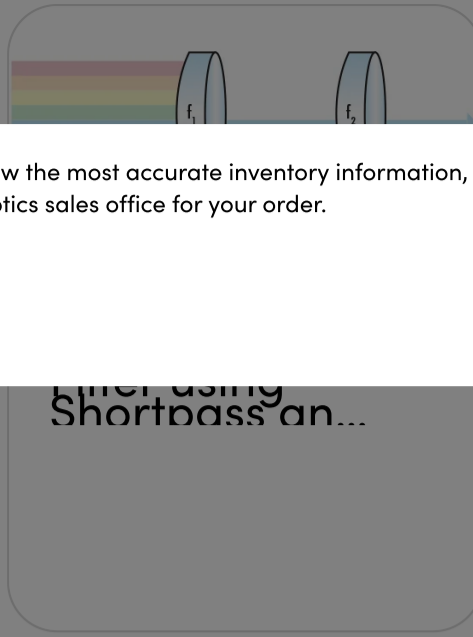
Resources

Media Type

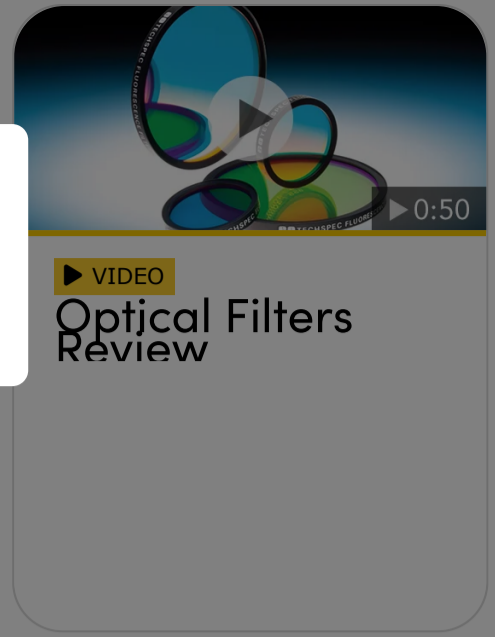
- Application Note
- Video
- Published Article
- FAQ
- Glossary
- Trending in Optics



Optical Filter Orientation...



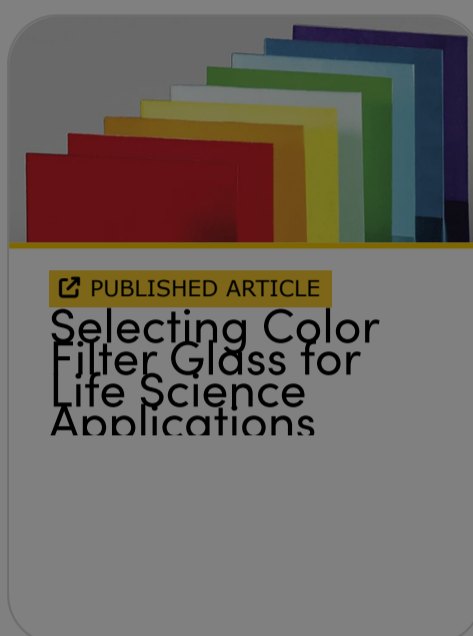
Filter using Shortpass an...



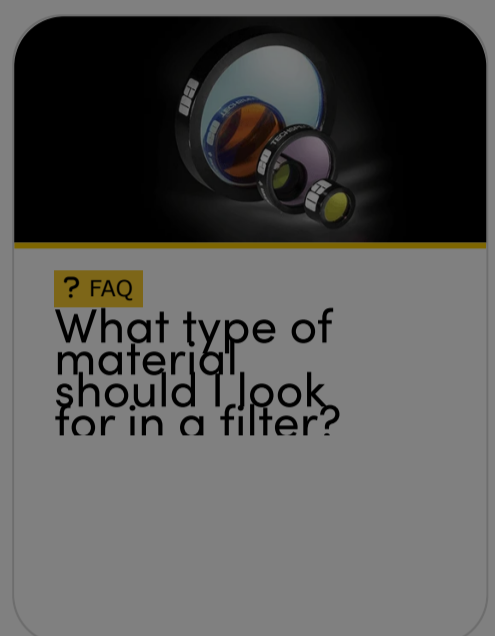
▶ VIDEO
Optical Filters Review



▶ 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?

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