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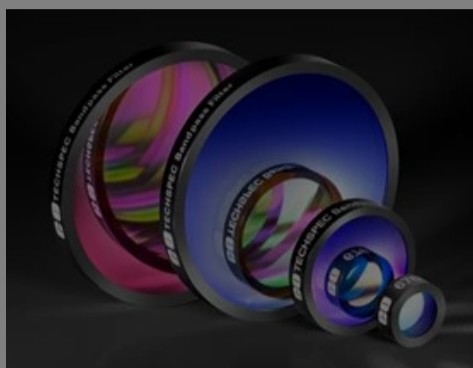
TECHSPEC®

550nm CWL, 50mm Diameter Hard Coated OD 4.0 10nm Bandpass Filter

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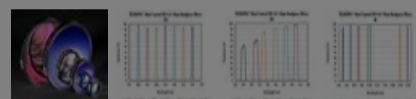
Stock #65-220 **3 In Stock** [Additional Bandwidths](#)

1

€679⁰⁰

ADD TO CART

TECHSPEC Hard Coated OD 4.0 10nm Bandpass Filters



Volume Pricing

Qty 1-5	€679,00 each
Qty 6-25	€543,00 each
Qty 26-49	€509,25 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: Acridine Yellow, Magnesium Orange, HiLyte Fluor 555

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): 550.00 ±2.0

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

Full Width-Half Max FWHM Tolerance (nm):	±2.0	Substrate: ⓘ	Optical Glass
Minimum Transmission (%):	≥85	Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.	
Surface Quality:	80-50	Select Your Country/Region:	
		Range (nm):	
Threading & Mounting			
Mount Thickness (mm):	5.0 ±0.1		
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

- 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

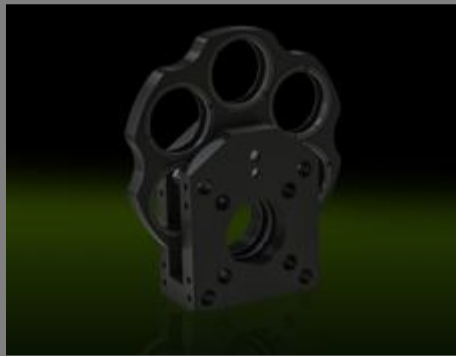
Note: Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title		Price	Buy
MORE+	12.5mm Dia., Nd:YAG Hard Coated OD 4.0 10nm Bandpass Filter			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 Kit (4 Filters)	#15-099	€2.760,00 Request Quote	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



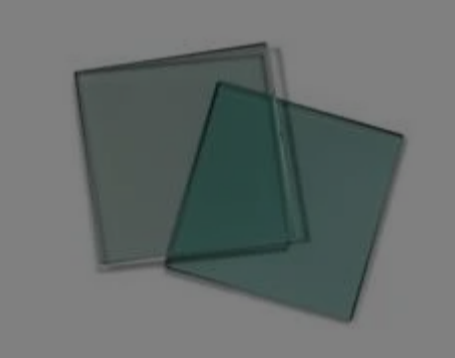
Hard Coated OD 4.0 5nm Bandpass Filters

Frequently Purchased Together



#46-685 - 40mm Diameter x 28.5mm FL, Aspheric Condenser Lens
€75,00

Qty



#45-648 - SCHOTT KG1, 50mm Dia., 3mm Thick, Colored Glass Heat Absorbing Shortpass Filter
€99,00

Qty



#34-475 - 50mm Dia. White Diffusing Glass
€45,25

Qty















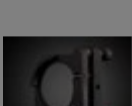



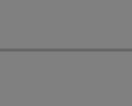











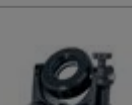



#34-303 - 375nm 50mm Dia., High Performance Longpass Filter
€580,00

Qty



Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
MORE+	50.0mm Optic Dia., Optic Mount	Fixed		#64-567	€49,25 Request Quote	2 In Stock 1
MORE+	50.0mm Optic Dia., Optic Mount	Fixed		#64-568	€49,25 Request Quote	8 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

	Title	Type	Compare	Stock Number	Price	Buy
MORE+	 50.0/50.8mm Optic Dia., Kinematic Mount	Adjustable - Tip-Tilt			€96,00	5 In Stock <input type="text" value="1"/> 
MORE+	 10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder					CONTACT US <input type="text" value="1"/> 
MORE+	 19.5 - 108.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-670	€114,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 7.0 - 67.0mm Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	€116,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Optical Cell Assembly	Fixed		#36-465 CLEARANCE	€119,95 Request Quote	2 In Stock <input type="text" value="1"/> 
MORE+	 8.0 - 118.0mm Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	€120,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#58-852	€135,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#58-855	€157,00 Request Quote	20+ In Stock <input type="text" value="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 <input type="text" value="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 <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-957	€308,00 Request Quote	3 In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Kinematic Mirror Mount	Adjustable - Tip-Tilt		#55-005	€361,00 Request Quote	6 In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Kinematic Mirror Mount with Micrometer	Adjustable - Tip-Tilt		#56-326	€387,00 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+	 5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	€410,00 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Precision Gimbal Mount	Adjustable - Gimbal		#55-000	€510,00 Request Quote	7 In Stock <input type="text" value="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 <input type="text" value="1"/> 

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	Title	Type	Compare	Stock Number	Price	Buy
MORE+	 50.0/50.8mm Optic Dia., Optical Mou	Adjustable -			€840,00	10 In Stock <input type="text" value="1"/> 

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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?

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