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TECHSPEC OD 4.0 Notch Filters

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Select Your Country/Region: European Union

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1 €1.010^{,00}

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Volume Pricing	
Qty 1-5	€1.010,00 each
Qty 6-25	€859,00 each
Qty 26-49	€799,00 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: Notch Filter

Physical & Mechanical Properties

Diameter (mm): 50.00 +0.00/-0.10

Clear Aperture CA (mm): 42.5

Thickness (mm): 5.00 ±0.1

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

Optical Properties

Optical Density OD (Average): ≥4.0

Center Wavelength CWL (nm): 514.50

Design Wavelength DWL (nm): 514.5

Full Width-Half Max FWHM (nm): 25.70

Coating: Hard Coated

Surface Quality: 60-40

Transmission (%): 90

Transmission Wavelength (nm): 385 - 685

Reflection at CWL (%): 99

Transmitted Wavefront, <1λ

Threading & Mounting

Mount Thickness (mm): 5.0

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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

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

- >OD 4.0 Rejection of Laser Wavelength from 355nm to 1064nm
- Broad Transmission Range
- **OD 6.0 Notch Filters Also Available**
- Low Cost Alternative to Rugate Notch Filters

TECHSPEC® OD 4.0 Notch Filters are low-cost alternatives to Rugate Notch Filters. The filters feature narrow rejection bands of just $\pm 2.5\%$ of the center wavelength while offering greater than 99% reflection of the laser wavelength. These optical filters have a broad transmission range and are hard coated to guarantee performance that will not degrade with time, temperature, or humidity. TECHSPEC® OD 4.0 Notch Filters are mounted in a black anodized ring engraved to ease filter handling, identification, and orientation. **OD 6.0 Notch Filters** are also available for purchase.

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^2 @ 532nm, 10ns. Please **contact us** if you require a filter with a higher LIDT value.

Technical Information

This graph is an example of a standard notch filter transmission curve. For specific wavelength data, please refer to the curve PDF attached to each respective part.

All mounted TECHSPEC® Optical Filters have an arrow on the side of the mount that points to the filter-coated surface for quick reference. Filter oriented such that arrow points to filter coated surface S1. Anti-reflective (AR) coating is applied to S2.

Related Products



Manual Cage Filter Wheel



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OD 6.0 Notch Filters

Frequently Purchased Together



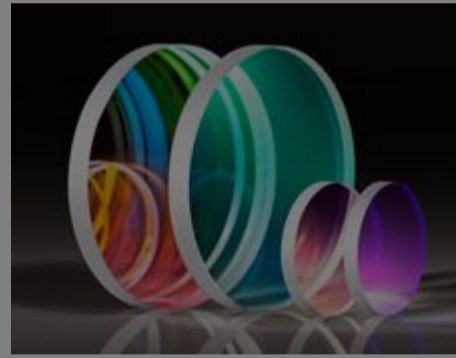
#67-128 - 532nm, 50mm Diameter, OD 4.0 Notch Filter
€1.010,00

Qty



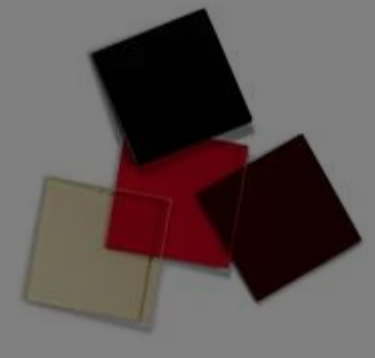
#67-132 - 1064nm, 50mm Diameter, OD 4.0 Notch Filter
€1.010,00

Qty



#84-728 - 750nm 50mm Diameter, OD 4.0 Shortpass Filter
€595,00

Qty



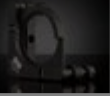

















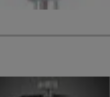





#66-082 - SCHOTT GG-475, 50mm Dia., 3mm Thick, Colored Glass Longpass Filter
€105,00

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	50.0mm Optic Dia., Optic Mount	Fixed		#64-567	€49,25 Request Quote	2 In Stock <input type="text" value="1"/>
	50.0mm Optic Dia., Optic Mount	Fixed		#64-568	€49,25 Request Quote	7 In Stock <input type="text" value="1"/>
	9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#36-605	€83,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	50.0/50.8mm Optic Dia., E-Series Kinematic Mount	Adjustable - Tip-Tilt		#15-867	€96,00 Request Quote	CONTACT US <input type="text" value="1"/>
	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	€108,00 Request Quote	CONTACT US <input type="text" value="1"/>
	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"/>
	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	€116,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	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"/>

	Title	Type	Compare	Stock Number	Price	Buy
MORE+	 8.0 - 118.0 Optic Height, English Type Optic H				€120,00	20+ In Stock <input type="text" value="1"/> 
MORE+	 50.0/50.8mm Optic Dia., Kinematic Mount, 2-Screws					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	1 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"/> 
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 <input type="text" value="1"/> 

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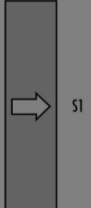
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Check out our full selection of mounts [here](#).

Resources

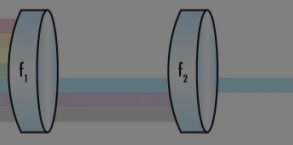
Media Type

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




APPLICATION NOTE

The Importance of Optical Filter Orientation...



APPLICATION NOTE

Custom Bandpass Filter using Shortpass an...



VIDEO

Optical Filters Review

0:50

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Optical Filter Coatings: Comparison of Traditional a...

Selecting Color Filter Glass for Life Science Applications

? FAQ

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

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