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780nm High Performance Laser Line Bandpass Filters



High Performance Laser Line Bandpass Filters

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

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Bandwidths

- 1 +

€399^{.00}

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Volume Pricing

Qty	€399,00
1+	each

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Prices shown are exclusive of VAT/local taxes

Product Downloads

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

General

Type: Bandpass Filter

Physical & Mechanical Properties

Diameter (mm): 12.50 +0.0/-0.1

Clear Aperture CA (mm): ≥10

Construction: Mounted in Black Anodized Ring

Physical Durability: MIL-C-48497A Paragraphs 4.5.3.1, 4.5.3.2, 4.5.3.3, 4.5.4.2, and 4.5.5.3

Substrate Thickness (mm): 2.0 ±0.1

Optical Properties

Angle of Incidence (°): 0 ±2

Bandwidth (nm): 3.0

Beam Deviation (arcsec): <11

OD 5 Blocking Wavelength Range (nm) : 609 - 772 & 788 - 1202

OD 6 Blocking Wavelength Range (nm): 718 - 768 & 792 - 858

Optical Density OD (Average): ≥6.0

Center Wavelength CWL (nm): 780.00

Design Wavelength DWL (nm): 780

Full Width-Half Max FWHM (nm): 2.96 - 5.46

Substrate: Fused Silica

Minimum Transmission (%): >90

Coating: Hard Coated

Surface Quality: 60-40

Transmission (%): >90

Blocking Wavelength Range (nm): 609 - 772 & 788 - 1202

Transmitted Wavefront, P-V: ¼ @ 633nm

Threading & Mounting

Mount Thickness (mm): 3.5 ±0.1

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Environmental & Durability Factors

Temperature Dependence (ppm/°C): <5

Environmental Durability: MIL-STD-810F Paragraphs 501.4, 502.4, and 507.4

Regulatory Compliance

RoHS 2015: **Compliant**

Reach 209: **Compliant**

Certificate of Conformance: **View**

Product Details

- Over 90% Transmission at Specified Laser Lines
- Hard Coated Design
- Designed for Laser Applications

Available for use with common gas and solid state lasers, High Performance Laser-Line Bandpass Filters are designed to offer maximum transmission of stimulated emission, while eliminating noisy spontaneous emission. These laser line filters are available at popular diode and Nd:YAG laser lines, including 532nm, 785nm, and 1064nm. High Performance Laser-Line Bandpass Filters are ideal for laser-based fluorescence instrumentation, Raman spectroscopy, or for analytical or medical laser systems. Due to their steep edges, High Performance Laser-Line Bandpass Filters are excellent complements to TECHSPEC® Notch Filters and [Laser Line Longpass 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 0.1 J/cm² @ 532nm, 10ns.

Technical Information

Frequently Purchased Together



#47-494 - 632.8nm High Performance Laser Line Filter
12.5mm Dia
€399,00

Qty



#47-497 - 1064nm High Performance Laser Line Filter
12.5mm Dia
€399,00

Qty



#58-973 - 76.2mm Length, M6 Thread, Post Holder
€15,75




































Qty



#03-655 - Sliding 2" x 3" Base Plate
€25,25


















Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
MORE+	 12.5/12.7mm Optic Dia., Thin Mount				€19,50	10 In Stock <input type="text" value="1"/> 
MORE+	 12.5/12.7mm Optic Dia., Thin Mount					17 In Stock <input type="text" value="1"/> 
MORE+	 12.5/12.7mm Optic Dia., E-Series Kinematic Mount	Adjustable - Tip-Tilt		#15-865	€43,50 Request Quote	6 In Stock <input type="text" value="1"/> 
MORE+	 12.5/12.7mm Optic Dia., L-Slot Direct Mount	Fixed		#36-416	€59,00 Request Quote	17 In Stock <input type="text" value="1"/> 
MORE+	 12.5/12.7mm Optic Dia., Side Flange Direct Mount	Fixed		#36-418	€59,00 Request Quote	10 In Stock <input type="text" value="1"/> 
MORE+	 2.0 - 35.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-668	€63,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 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"/> 
MORE+	 12.5/12.7mm Optic Dia., Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#58-850	€93,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 12.5/12.7mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-417	€96,50 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 12.5/12.7mm Optic Dia., Compact Kinematic Mount, 2-Screws	Adjustable - Tip-Tilt		#34-720	€101,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-529	€102,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 12.5/12.7mm Optic Dia., Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#58-853	€104,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	€106,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 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"/> 
MORE+	 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"/> 
MORE+	 12.5/12.7mm Optic Dia., Compact Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#34-721	€117,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	€120,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
	4.0 - 36.0mm Optic Dia., Self	Fixed		#16-077	€157,00 Request	5 In Stock <input type="text" value="1"/> 

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	Title	Type	Compare	Stock Number	Price	Buy
MORE+	 Centering Jaw Clamp				Quote	
MORE+	 12.5/12.7mm Optic Dia., Stainless Steel Kinematic Mount, 2-Screws					20+ In Stock <input type="text" value="1"/> 
MORE+	 12.5/12.7mm Optic Dia., Stainless Steel Kinematic Mount, 3-Screws	Adjustable - Tip-Tilt		#26-817	€182,00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+	 12.5/12.7mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-955	€261,00 Request Quote	7 In Stock <input type="text" value="1"/> 
MORE+	 12.5/12.7mm Optic Dia., Top Adjust Kinematic Mount, Lead Screw	Adjustable - Tip-Tilt		#13-768	€270,00 Request Quote	6 In Stock <input type="text" value="1"/> 
MORE+	 12.5/12.7mm Optic Dia., Top Adjust Kinematic Mount, Micrometer	Adjustable - Tip-Tilt		#13-769	€289,00 Request Quote	5 In Stock <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+	 12.5/12.7mm Optic Dia., Precision Gimbal Mount	Adjustable - Gimbal		#84-640	€421,00 Request Quote	7 In Stock <input type="text" value="1"/> 
MORE+	 12.5/12.7mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-958	€429,00 Request Quote	5 In Stock <input type="text" value="1"/> 

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- Glossary
- Application Note
- Published Article
- Video
- Scientific Paper

? FAQ

How do I use high performance laser line...

↑ TRENDING IN OPTICS

Trending in Optics: The Future of Optical Filters

? FAQ

What happens when a filter is tilted?

? FAQ

How do I determine which side of my filter is...

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Blocking Range

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