

852nm High Performance Laser Line Filter 12.5mm Dia.



High Performance Laser Line Bandpass Filters

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-

1

+

A\$638⁴⁰

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General

Type:

Bandpass Filter

Physical & Mechanical Properties

Diameter (mm):

12.50 +0.0/-0.1

Clear Aperture CA (mm):

≥10

Thickness Tolerance (mm):

±0.10

Mounted in Black Anodized Ring	Construction:
ML-C-48497A	Physical Durability:
	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	
0 ±2	Angle of Incidence (°):
3.2	Bandwidth (nm):
OD 5 Blocking Wavelength Range (nm) : 652 - 843.5 & 860.5 - 1106.6	
OD 6 Blocking Wavelength Range (nm): 783.8 - 839.2 & 864.8 - 937.2	
≥6.0	Optical Density OD (Average):
852.00	Center Wavelength CWL (nm):
852	Design Wavelength DWL (nm):
3.20 - 6.0	Full Width-Half Max FWHM (nm):
Fused Silica	Substrate: ☐
>90	Minimum Transmission (%):
Hard Coated	Coating:
60-40	Surface Quality:
>90	Transmission (%):
Blocking Wavelength Range (nm): 652 - 843.5 & 860.5 - 1106.6	

Threading & Mounting	
3.5 ±0.1	Mount Thickness (mm):
Environmental & Durability Factors	
ML-STD-810F	Environmental Durability:
	Paragraphs 501.4, 502.4, and 507.4

Regulatory Compliance	
Compliant	RoHS 2015:
Compliant	Reach 209:
View	Certificate of Conformance:

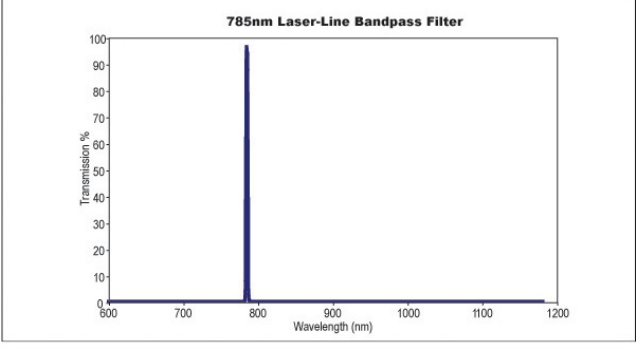
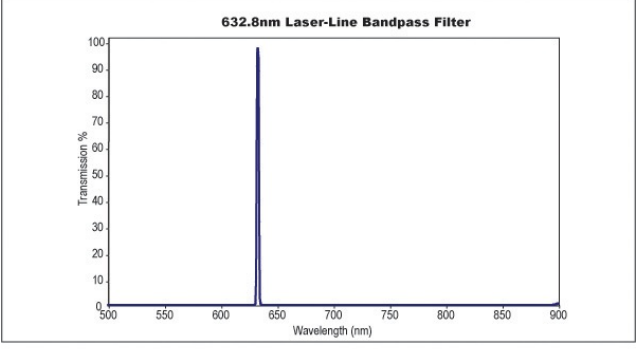
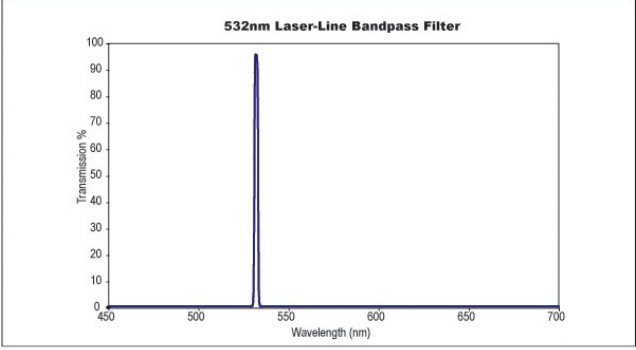
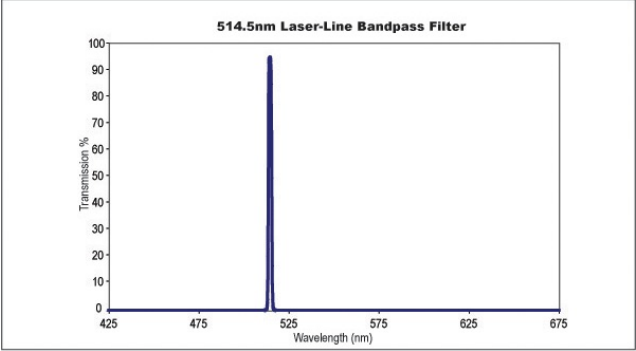
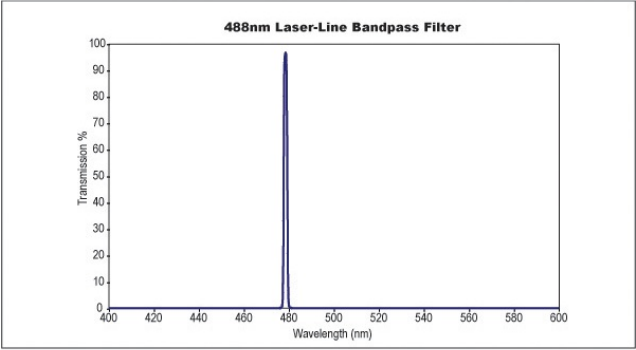
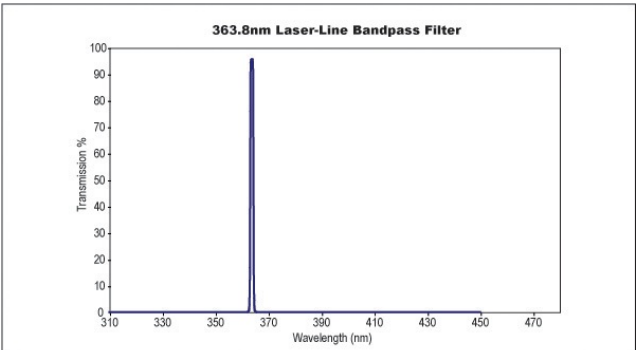
Product Details

- 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



Compatible Mounts