

830nm High Performance Laser Line Filter 12.5mm Dia.



High Performance Laser Line Bandpass Filters

Stock **#64-245** **1 In Stock**

☐ [Additional Bandwidths](#)

-

1

+

C\$558<sup>.60</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | C\$558.60 each                |
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Product Downloads

General

Bandpass Filter

Type:

Physical & Mechanical Properties

12.50 +0.0/-0.1

Diameter (mm):

≥10

Clear Aperture CA (mm):

±0.10

Thickness Tolerance (mm):

|                                |                                                            |
|--------------------------------|------------------------------------------------------------|
| 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):                       |
|                        |                                       |
| <11                    | Beam Deviation (arcsec):              |
|                        |                                       |
| 639 - 822 & 838 - 1325 | OD 5 Blocking Wavelength Range (nm) : |
|                        |                                       |
| 764 - 818 & 843 - 913  | OD 6 Blocking Wavelength Range (nm):  |
|                        |                                       |
| ≥6.0                   | Optical Density OD (Average):         |
|                        |                                       |
| 830.00                 | Center Wavelength CWL (nm):           |
|                        |                                       |
| 830                    | Design Wavelength DWL (nm):           |
|                        |                                       |
| 3.15 - 5.81            | Full Width-Half Max FWHM (nm):        |
|                        |                                       |
| Fused Silica           | Substrate: □                          |
|                        |                                       |
| >90                    | Minimum Transmission (%):             |
|                        |                                       |
| Hard Coated            | Coating:                              |
|                        |                                       |
| 60-40                  | Surface Quality:                      |
|                        |                                       |
| >90                    | Transmission (%):                     |
|                        |                                       |
| 639 - 822 & 838 - 1325 | Blocking Wavelength Range (nm):       |
|                        |                                       |
| ¼ @ 633nm              | Transmitted Wavefront, P-V:           |
|                        |                                       |

Threading & Mounting

|          |                       |
|----------|-----------------------|
| 3.5 ±0.1 | Mount Thickness (mm): |
|          |                       |

Environmental & Durability Factors

|             |                                    |
|-------------|------------------------------------|
| <5          | Temperature Dependence (ppm/°C):   |
|             |                                    |
| 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: |
|           |                             |

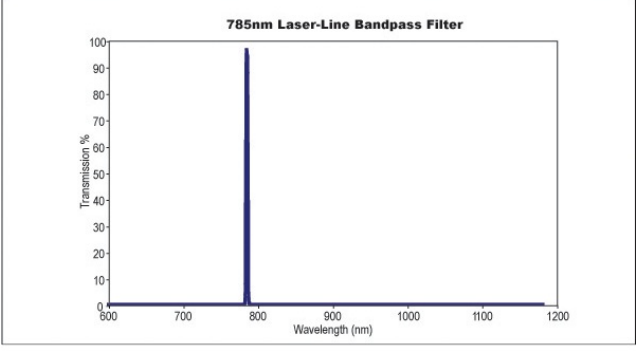
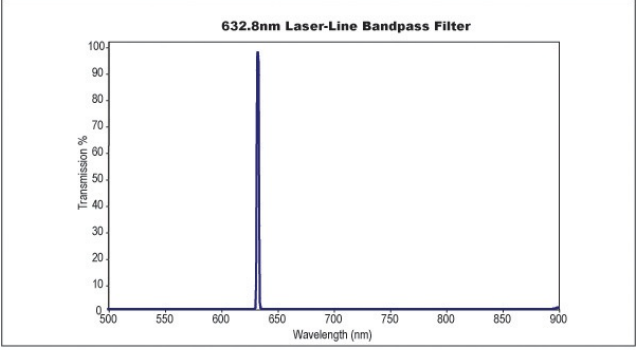
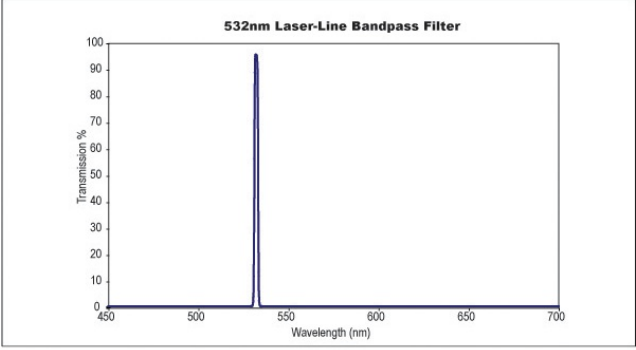
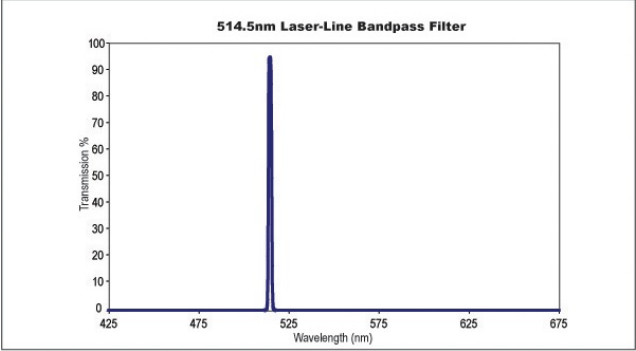
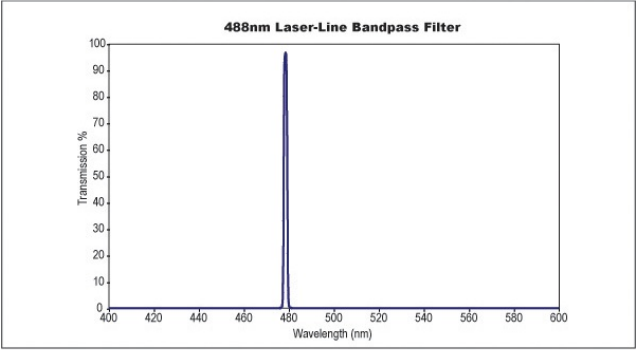
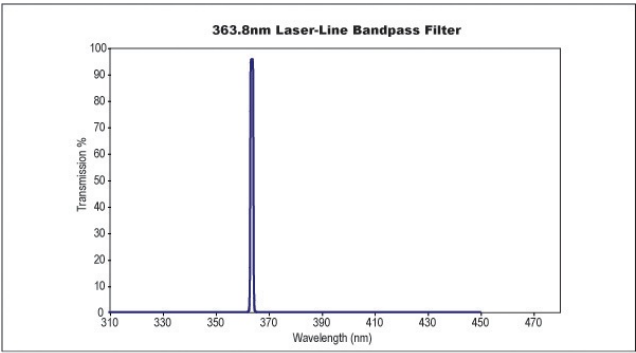
Product Details

- 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). Atypical LIDT for these filters is 0.1 J/cm<sup>2</sup> @ 532nm, 10ns.

Technical Information



## Compatible Mounts