647.1nm High Performance Laser Line Filter 12.5mm Dia.

High Performance Laser Line Bandpass Filters

Stock **#64-241** **5 In Stock**

- 1 + **₹31,996**

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SPECIFICATIONS

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

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):
2.5

Beam Deviation (arcsec):
<11

OD 5 Blocking Wavelength Range (nm) :
525 - 641 & 654 - 913

OD 6 Blocking Wavelength Range (nm):
595 - 637 & 657 - 712

Optical Density OD (Average):
≥6.0

Center Wavelength CWL (nm):
647.10

Design Wavelength DWL (nm):
647.1

Full Width-Half Max FWHM (nm):
2.46 - 4.49

Substrate:
Fused Silica

Minimum Transmission (%):
>90

Coating:
Hard Coated

Surface Quality:
60-40

Transmission (%):
>90

Blocking Wavelength Range (nm):
525 - 641 & 654 - 913

Transmitted Wavefront, P-V:
¼@633nm

Threading & Mounting

Mount Thickness (mm):
3.5 ±0.1

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

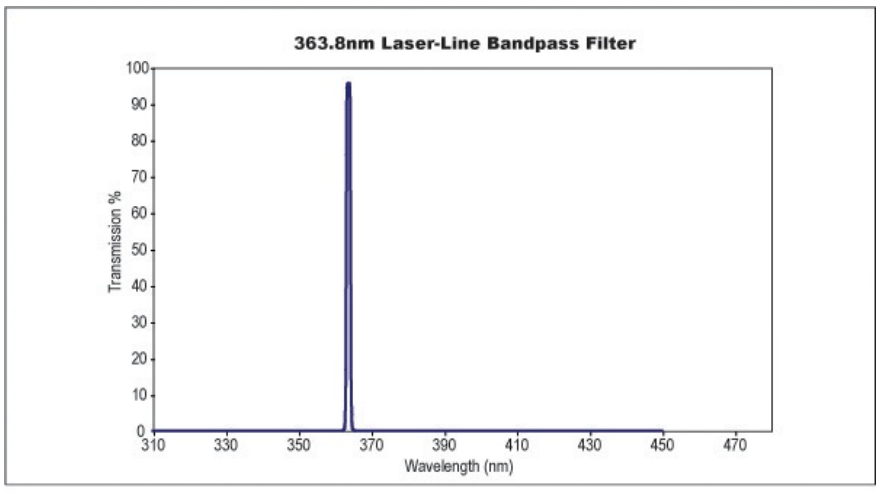
PRODUCT DETAILS

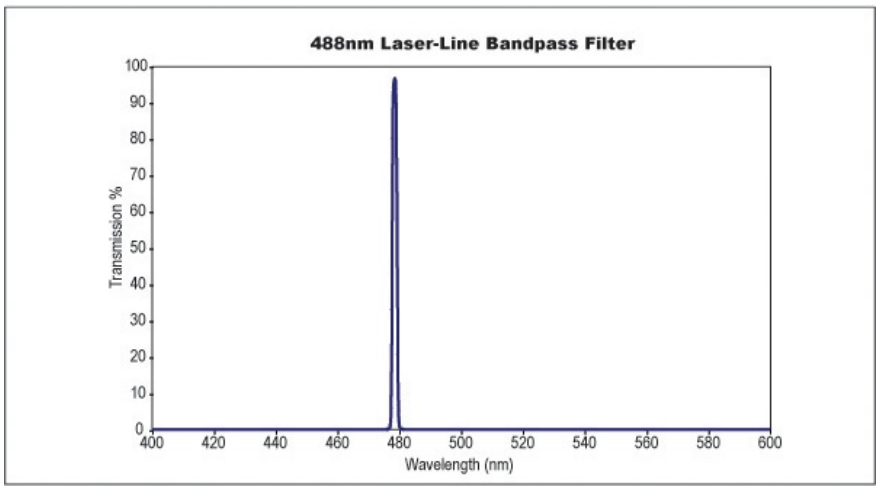
- Over 90% Transmission at Specified Laser Lines
- Hard Coated Design
- Designed for Laser Applications

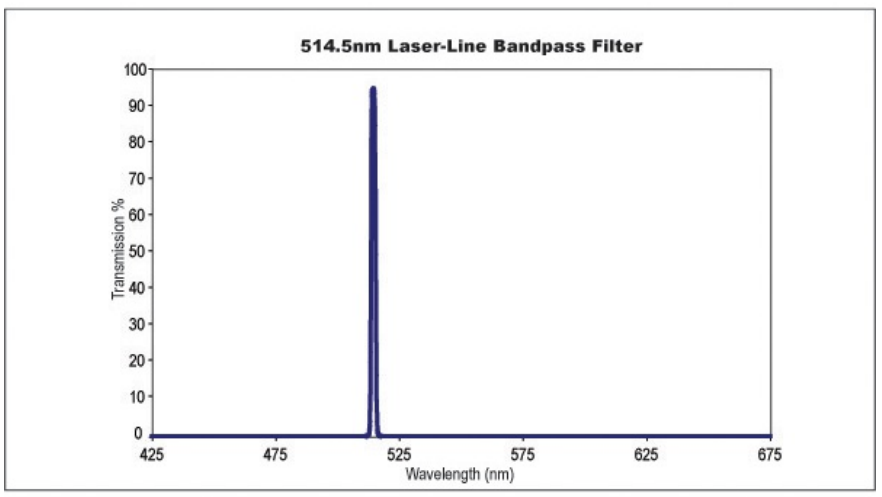
Available for use with common gas and solid state lasers, High Performance Laser-Line Bandpass Filters are designed to offer maximum transmission of stimulated emission, while eliminating noisy spontaneous emission. These laser line filters are available at popular diode and Nd:YAG laser lines, including 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**.

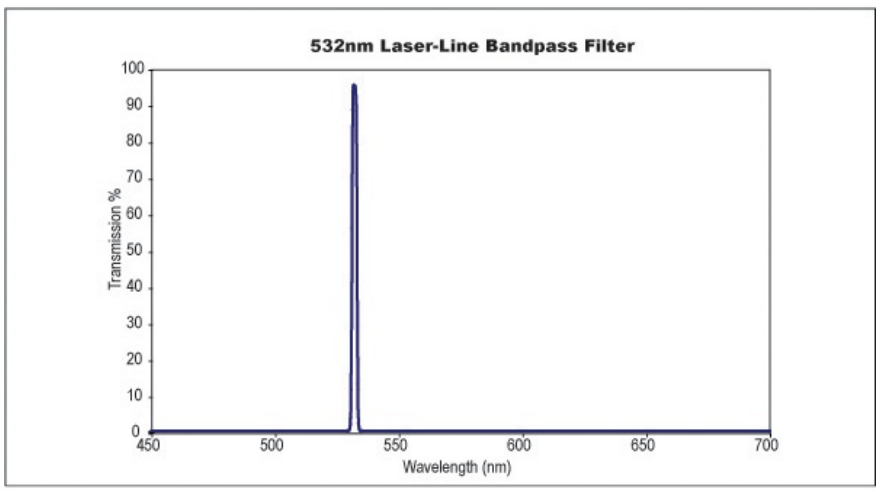
Note: These filters are optimized for high spectral performance rather than high Laser Induced Damage Thresholds (LIDT). A typical LIDT for these filters is 0.1 J/cm^2 @ 532nm, 10ns.

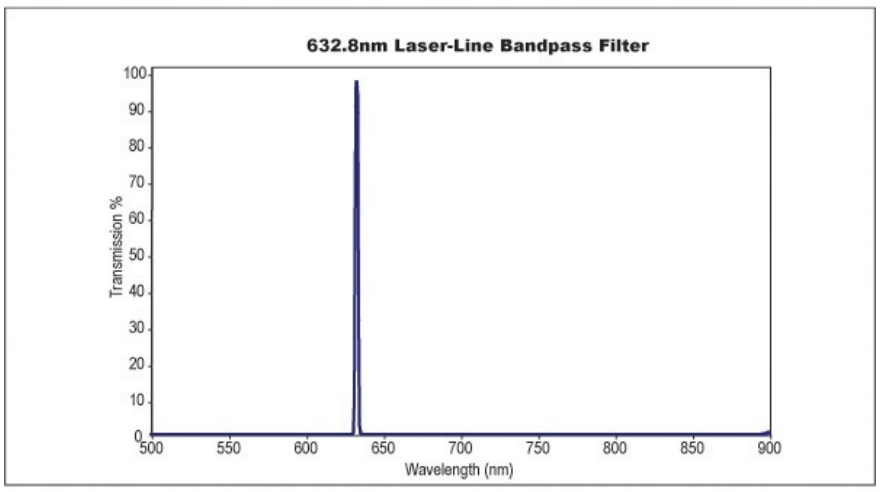
TECHNICAL INFORMATION

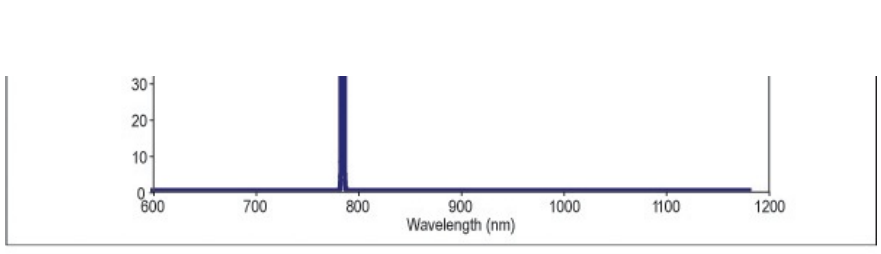












COMPATIBLE MOUNTS