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## 514.5nm High Performance Laser Line Filter 12.5mm Dia



High Performance Laser Line Bandpass Filters

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⊖ 1 ⊕ €445<sup>00</sup>

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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):**

**Construction:**  
Mounted in Black Anodized Ring

**Physical Durability:**  
ML-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):**  
2.0

**Beam Deviation (arcsec):**  
<11

**OD 5 Blocking Wavelength Range (nm) :**  
434 - 509 & 520 - 670

**OD 6 Blocking Wavelength Range (nm):**  
473 - 507 & 522 - 566

**Optical Density OD (Average):**  
≥6.0

**Center Wavelength CWL (nm):**  
514.50

**Design Wavelength DWL (nm):**  
514.5

**Full Width-Half Max FWHM (nm):**  
1.96 - 3.6

**Substrate:**   
Fused Silica

**Minimum Transmission (%):**  
>90

**Coating:**  
Hard Coated

**Surface Quality:**  
60-40

**Transmission (%):**  
>90

**Blocking Wavelength Range (nm):**  
434 - 509 & 520 - 670

**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:**  
ML-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<sup>2</sup> @ 532nm, 10ns.

## Technical Information



## Compatible Mounts