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## 852nm High Performance Laser Line Filter 12.5mm Dia.



High Performance Laser Line Bandpass Filters

Stock #12-272 [CONTACT US](#)

[Additional Bandwidths](#)

⊖ 1 ⊕ A\$638<sup>00</sup>

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**General**

Bandpass Filter **Type:**

**Physical & Mechanical Properties**

12.50 +0.0/-0.1 **Diameter (mm):**

≥10 **Clear Aperture CA (mm):**

Mounted in Black Anodized Ring **Construction:**

**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):**

3.2

**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

**Optical Density OD (Average):**

≥6.0

**Center Wavelength CWL (nm):**

852.00

**Design Wavelength DWL (nm):**

852

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

3.20 - 6.0

**Substrate:**

Fused Silica

**Minimum Transmission (%):**

>90

**Coating:**

Hard Coated

**Surface Quality:**

60-40

**Transmission (%):**

>90

**Blocking Wavelength Range (nm):**  
652 - 843.5 & 860.5 - 1106.6

## Threading & Mounting

**Mount Thickness (mm):**

3.5±0.1

## Environmental & Durability Factors

**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