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## 488nm High Performance Laser Line Filter 12.5mm Dia



High Performance Laser Line Bandpass Filters

Stock **#47-491** **1 In Stock**

[Additional Bandwidths](#)

⊖ 1 ⊕ **A\$638<sup>00</sup>**

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### Volume Pricing

Qty 1+	<b>A\$638.40</b> each
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### 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	<b>Construction:</b>
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	<b>Physical Durability:</b>
2.0 ±0.1	<b>Substrate Thickness (mm):</b>
<b>Optical Properties</b>	
0 ±2	<b>Angle of Incidence (°):</b>
1.9	<b>Bandwidth (nm):</b>
<11	<b>Beam Deviation (arcsec):</b>
415 - 483 & 493 - 625	<b>OD 5 Blocking Wavelength Range (nm) :</b>
449 - 481 & 495 - 537	<b>OD 6 Blocking Wavelength Range (nm):</b>
≥6.0	<b>Optical Density OD (Average):</b>
488.00	<b>Center Wavelength CWL (nm):</b>
488	<b>Design Wavelength DWL (nm):</b>
1.85 - 3.42	<b>Full Width-Half Max FWHM (nm):</b>
Fused Silica	<b>Substrate:</b> □
>90	<b>Minimum Transmission (%):</b>
Hard Coated	<b>Coating:</b>
60-40	<b>Surface Quality:</b>
>90	<b>Transmission (%):</b>
415 - 483 & 493 - 625	<b>Blocking Wavelength Range (nm):</b>
¼ @ 633nm	<b>Transmitted Wavefront, P-V:</b>

### Threading & Mounting

3.5 ±0.1	<b>Mount Thickness (mm):</b>
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### Environmental & Durability Factors

<5	<b>Temperature Dependence (ppm/°C):</b>
ML-STD-810F Paragraphs 501.4, 502.4, and 507.4	<b>Environmental Durability:</b>

### Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">Compliant</a>	<b>Reach 209:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>

## 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