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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**

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⊖ 1 ⊕ **\$558⁰⁰**

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Qty 1+	\$558.60 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):**

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):
1.9

Beam Deviation (arcsec):
< 11

OD 5 Blocking Wavelength Range (nm) :
415 - 483 & 493 - 625

OD 6 Blocking Wavelength Range (nm):
449 - 481 & 495 - 537

Optical Density OD (Average):
≥ 6.0

Center Wavelength CWL (nm):
488.00

Design Wavelength DWL (nm):
488

Full Width-Half Max FWHM (nm):
1.85 - 3.42

Substrate:
Fused Silica

Minimum Transmission (%):
> 90

Coating:
Hard Coated

Surface Quality:
60-40

Transmission (%):
> 90

Blocking Wavelength Range (nm):
415 - 483 & 493 - 625

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/cm² @ 532nm, 10ns.

Technical Information



Compatible Mounts