

514.5nm High Performance Laser Line Filter 12.5mm Dia



High Performance Laser Line Bandpass Filters

Stock **#47-492** **2 In Stock**

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1

+

S\$623⁰⁰

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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

Mounted in Black Anodized Ring	Construction:
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	Physical Durability:
2.0 ±0.1	Substrate Thickness (mm):
Optical Properties	
0 ±2	Angle of Incidence (°):
2.0	Bandwidth (nm):
<11	Beam Deviation (arcsec):
434 - 509 & 520 - 670	OD 5 Blocking Wavelength Range (nm) :
473 - 507 & 522 - 566	OD 6 Blocking Wavelength Range (nm):
≥6.0	Optical Density OD (Average):
514.50	Center Wavelength CWL (nm):
514.5	Design Wavelength DWL (nm):
1.96 - 3.6	Full Width-Half Max FWHM (nm):
Fused Silica	Substrate: □
>90	Minimum Transmission (%):
Hard Coated	Coating:
60-40	Surface Quality:
>90	Transmission (%):
434 - 509 & 520 - 670	Blocking Wavelength Range (nm):
¼ @ 633nm	Transmitted Wavefront, P-V:
Threading & Mounting	
3.5 ±0.1	Mount Thickness (mm):
Environmental & Durability Factors	
<5	Temperature Dependence (ppm/°C):
ML-STD-810F Paragraphs 501.4, 502.4, and 507.4	Environmental Durability:
Regulatory Compliance	
Compliant	RoHS 2015:
Compliant	Reach 209:
View	Certificate of Conformance:

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/cm² @ 532nm, 10ns.

Technical Information



Compatible Mounts