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514.5nm High Performance Laser Line Filter 25mm Dia.



High Performance Laser Line Bandpass Filters

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⊖ 1 ⊕ **A\$1,528⁰⁰**

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General

Bandpass Filter **Type:**

Physical & Mechanical Properties

25.00 +0.0/-0.1 **Diameter (mm):**

≥22 **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):

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/cm² @ 532nm, 10ns.

Technical Information



Compatible Mounts