

457.9nm High Performance Laser Line Filter 12.5mm Dia.



High Performance Laser Line Bandpass Filters

Stock #12-269 **1 In Stock**

A\$638⁰⁰

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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):
1.7

OD 5 Blocking Wavelength Range (nm) :
393.1 - 453.3 & 462.5 - 576.7

OD 6 Blocking Wavelength Range (nm):
421.3 - 451 & 464.8 - 503.7

Optical Density OD (Average):
≥6.0

Center Wavelength CWL (nm):
457.90

Design Wavelength DWL (nm):
457.9

Full Width-Half Max FWHM (nm):
1.70 - 3.2

Substrate:
Fused Silica

Minimum Transmission (%):
>90

Coating:
Hard Coated

Surface Quality:
60-40

Transmission (%):
>90

Blocking Wavelength Range (nm):
393.1 - 453.3 & 462.5 - 576.7

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/cm² @ 532nm, 10ns.

Technical Information



Compatible Mounts