

457.9nm High Performance Laser Line Filter 25mm Dia.



High Performance Laser Line Bandpass Filters

Stock **#12-277** **1 In Stock**

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+

S\$1,192⁸⁰

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General

Bandpass Filter

Type:

Physical & Mechanical Properties

25.00 +0.0/-0.1

Diameter (mm):

≥22

Clear Aperture CA (mm):

±0.10

Thickness Tolerance (mm):

Construction:	
Mounted in Black Anodized Ring	
Physical Durability:	
ML-C-48497AParagraphs 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