

405nm High Performance Laser Line Filter 12.5mm Dia.



High Performance Laser Line Bandpass Filters

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1

+

A\$638⁴⁰

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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

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):	
1.5	
OD 5 Blocking Wavelength Range (nm) :	
353.5 - 401 & 409.1 - 495.3	
OD 6 Blocking Wavelength Range (nm):	
372.6 - 398.9 & 411.1 - 445.5	
Optical Density OD (Average):	
≥6.0	
Center Wavelength CWL (nm):	
405.00	
Design Wavelength DWL (nm):	
405	
Full Width-Half Max FWHM (nm):	
1.50 - 2.8	
Substrate: ☐	
Fused Silica	
Minimum Transmission (%):	
>90	
Coating:	
Hard Coated	
Surface Quality:	
60-40	
Transmission (%):	
>90	
Blocking Wavelength Range (nm):	
353.5 - 401 & 409.1 - 495.3	

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 noisyspontaneous 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