

647.1nm High Performance Laser Line Filter 12.5mm Dia.



High Performance Laser Line Bandpass Filters

Stock **#64-241** **5 In Stock**

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1

+

€445⁰⁰

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Qty 1+	€445,00 each
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General

Bandpass Filter

Type:

Physical & Mechanical Properties

12.50 +0.0/-0.1

Diameter (mm):

≥10

Clear Aperture CA (mm):

Thickness Tolerance (mm):

±0.10	
Mounted in Black Anodized Ring	Construction:
ML-C-48497A	Physical Durability: Paragraphs 4.5.3.1, 4.5.3.2, 4.5.3.3, 4.5.4.2, and 4.5.5.3
2.0 ±0.1	Substrate Thickness (mm):
Optical Properties	
0 ±2	Angle of Incidence (°):
2.5	Bandwidth (nm):
<11	Beam Deviation (arcsec):
525 - 641 & 654 - 913	OD 5 Blocking Wavelength Range (nm) :
595 - 637 & 657 - 712	OD 6 Blocking Wavelength Range (nm):
≥6.0	Optical Density OD (Average):
647.10	Center Wavelength CWL (nm):
647.1	Design Wavelength DWL (nm):
2.46 - 4.49	Full Width-Half Max FWHM (nm):
Fused Silica	Substrate: ☐
>90	Minimum Transmission (%):
Hard Coated	Coating:
60-40	Surface Quality:
>90	Transmission (%):
525 - 641 & 654 - 913	Blocking Wavelength Range (nm):
¼ @ 633nm	Transmitted Wavefront, P-V:

Threading & Mounting

3.5 ±0.1	Mount Thickness (mm):
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Environmental & Durability Factors

<5	Temperature Dependence (ppm/°C):
ML-STD-810F	Environmental Durability: Paragraphs 501.4, 502.4, and 507.4

Regulatory Compliance

Compliant	RoHS 2015:
Compliant	Reach 209:
View	Certificate of Conformance:

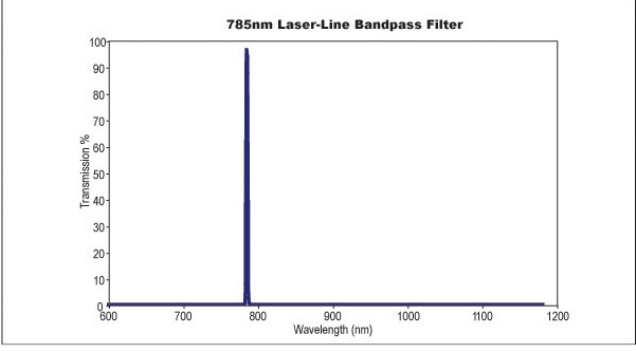
Product Details

- 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). A typical LIDT for these filters is 0.1 J/cm² @ 532nm, 10ns.

Technical Information



Compatible Mounts