

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

+

A\$712⁰⁰

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General

Bandpass Filter

Type:

Physical & Mechanical Properties

12.50 +0.0/-0.1

Diameter (mm):

≥10

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):	
2.5	
Beam Deviation (arcsec):	
<11	
OD 5 Blocking Wavelength Range (nm) :	
525 - 641 & 654 - 913	
OD 6 Blocking Wavelength Range (nm):	
595 - 637 & 657 - 712	
Optical Density OD (Average):	
≥6.0	
Center Wavelength CWL (nm):	
647.10	
Design Wavelength DWL (nm):	
647.1	
Full Width-Half Max FWHM (nm):	
2.46 - 4.49	
Substrate: 	
Fused Silica	
Minimum Transmission (%):	
>90	
Coating:	
Hard Coated	
Surface Quality:	
60-40	
Transmission (%):	
>90	
Blocking Wavelength Range (nm):	
525 - 641 & 654 - 913	
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). Atypical LIDT for these filters is 0.1 J/cm² @ 532nm, 10ns.

Technical Information



Compatible Mounts