

25mm Dia., 514.5nm Laser Line Longpass Filter



Laser Line Longpass Filters

Stock **#47-504** CLEARANCE **1 In Stock**

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1

+

S\$1,325SM

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General	
Longpass Filter	
Type:	
Angle Tuning Range, for 0 - 8° Shift: -0.3% of Laser Wavelength	
Physical & Mechanical Properties	
25.00 +0.0/-0.1	
Diameter (mm):	
22	
Clear Aperture CA (mm):	

±0.1	Thickness Tolerance (mm):
88	Clear Aperture (%):
Optical Properties	
0 ±2	Angle of Incidence (°):
>600	Bandwidth (nm):
416 - 514.5	OD 6 Blocking Wavelength Range (nm):
≥6.0	Optical Density OD (Average):
514.5	Design Wavelength DWL (nm):
Fused Silica (Corning 7980)	Substrate: ☐
Hard Coated	Coating:
60-40	Surface Quality:
93.00	Transmission (%):
521.2 - 1160.5	Transmission Wavelength (nm):
2.60	Edge Steepness (nm):
<5.1	Transition Width (nm):
514.5	Laser Blocking Wavelength (nm):
0.5 J/cm² @ 266nm, 10ns, 10Hz 1 J/cm² @ 532nm, 10ns, 10Hz	Damage Threshold, By Design: ☐

Threading & Mounting	
3.5	Mount Thickness (mm):

Environmental & Durability Factors	
Environmental: MIL-STD-810F, Physical: MIL-C-48497A	Durability:
<5	Temperature Dependence (ppm/°C):

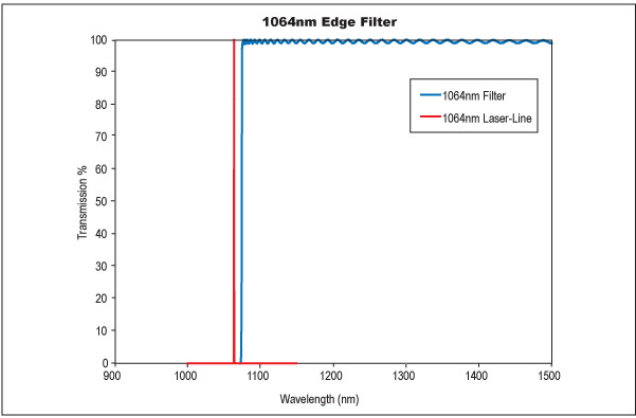
Regulatory Compliance	
Compliant	RoHS 2015:
Compliant	Reach 209:
View	Certificate of Conformance:

Product Details

- Up to 93% Transmission to Detect Weak Signals
- Deep > OD 6 Blocking for Maximum Laser Rejection
- Ideal for Raman Spectroscopy, Confocal Microscopy, and Biotech Instrumentation
- Unrivald Performance and Lifetime

Our Laser Line Longpass filters offer unprecedented performance in longpass laser edge filter applications. The steep edges (measured from an optical density of 6.0 to a transmission of 50%) make it possible to measure even the smallest Raman shifts, making these filters a superior alternative to costly holographic notch filters for Stokes Raman scattering measurements. Compared to notch filters, these edge filters offer better transmission, higher laser line blocking, and steeper edges, permitting measurement of Raman signals extremely close to the laser line. The large bandwidths and exceptional transmission permit these filters to be used in even the most demanding imaging applications.

Technical Information



Compatible Mounts

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