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25mm Dia., 514.5nm Laser Line Longpass Filter



Laser Line Longpass Filters

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

⊖ 1 ⊕ A\$1,062³²

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General

Type:
Longpass Filter

Angle Tuning Range, for 0 - 8° Shift:
-0.3% of Laser Wavelength

Physical & Mechanical Properties

Diameter (mm):
25.00 +0.0/-0.1

Clear Aperture CA (mm):
22

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)**:

Damage Threshold, By Design:
0.5 J/cm² @ 266nm, 10ns, 10Hz
1 J/cm² @ 532nm, 10ns, 10Hz

Threading & Mounting

3.5 **Mount Thickness (mm)**:

Environmental & Durability Factors

Durability:
Environmental: ML-STD-810F, Physical: ML-C-48497A

<5 **Temperature Dependence (ppm/°C)**:

Regulatory Compliance

Compliant **RoHS 2015:**

Compliant **Reach 209:**

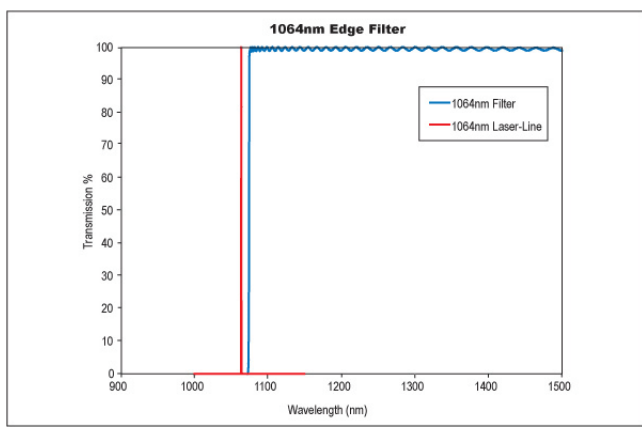
View **Certificate of Conformance:**

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
- Unrivaled 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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