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25mm Dia., 473nm Laser Line Longpass Filter



Laser Line Longpass Filters

Stock **#47-502** **1 In Stock**

⊖ 1 ⊕ C\$1,162⁵⁶

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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 (°):

>550 Bandwidth (nm):

383 - 473 OD 6 Blocking Wavelength Range (nm):

≥6.0 Optical Density OD (Average):

473 Design Wavelength DWL (nm):

Fused Silica (Coming 7980) Substrate:

Hard Coated Coating:

60-40 Surface Quality:

93.00 Transmission (%):

479.1 - 1066.9 Transmission Wavelength (nm):

2.40 Edge Steepness (nm):

<4.7 Transition Width (nm):

473 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: ML-STD-810F, Physical: ML-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
- 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
