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25mm Dia., 473nm Laser Line Longpass Filter

Laser Line Longpass Filters

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

- 1 + **₹59,789**

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Qty 1+	**₹59,789** each
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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

Thickness Tolerance (mm):
±0.1

Clear Aperture (%):
88

Optical Properties

Angle of Incidence (°):
0 ±2

Bandwidth (nm):
>550

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

Optical Density OD (Average):
≥6.0

Design Wavelength DWL (nm):
473

Substrate:
Fused Silica (Corning 7980)

Coating:
Hard Coated

Surface Quality:
60-40

Transmission (%):
93.00

Transmission Wavelength (nm):
479.1 - 1066.9

Edge Steepness (nm):
2.40

Transition Width (nm):
<4.7

Laser Blocking Wavelength (nm):
473

Damage Threshold, By Design:
0.5 J/cm^2 @ 266nm, 10ns, 10Hz
1 J/cm^2 @ 532nm, 10ns, 10Hz

Threading & Mounting

Mount Thickness (mm):
3.5

Environmental & Durability Factors

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

Temperature Dependence (ppm/°C):
<5

Regulatory Compliance

RoHS 2015:
Compliant

Reach 209:
Compliant

Certificate of Conformance:
View

Country of Origin:
United States

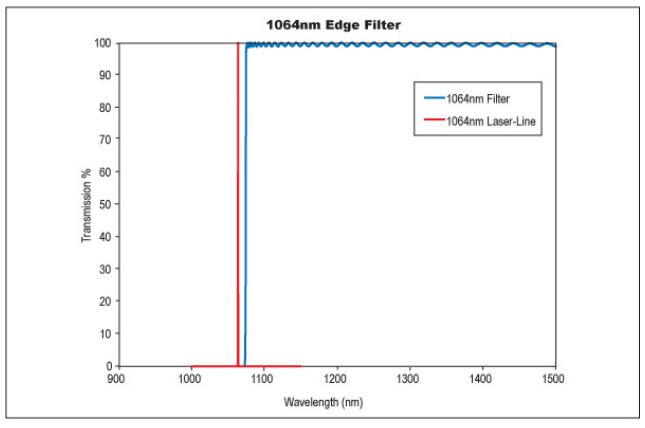
Imported By:
Edmund Optics India Private Limited

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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