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25mm Dia., 980nm Laser Line Longpass Filter



Laser Line Longpass Filters

Stock **#47-509** **2 In Stock**

-

1

+

€830⁴⁰

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Volume Pricing	
Qty 1+	€830,40 each
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Product Downloads

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	
±0.1	Thickness Tolerance (mm):
88	Clear Aperture (%):
Optical Properties	
0 ±2	Angle of Incidence (°):
>1000	Bandwidth (nm):
770 - 980	OD 6 Blocking Wavelength Range (nm):
≥6.0	Optical Density OD (Average):
980	Design Wavelength DWL (nm):
Fused Silica (Corning 7980)	Substrate: ☐
Hard Coated	Coating:
60-40	Surface Quality:
93.00	Transmission (%):
992.7 - 2000	Transmission Wavelength (nm):
4.90	Edge Steepness (nm):
<9.8	Transition Width (nm):
980	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
