

25mm Dia., 808nm Laser Line Longpass Filter



Laser Line Longpass Filters

Stock #12-256 [CONTACT US](#)

- 1 + £757^{ea}

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Volume Pricing	
Qty 1+	£757.68 each
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! Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Longpass Filter **Type:**

Physical & Mechanical Properties

25.00 +0.0/-0.1 **Diameter (mm):**

22 **Clear Aperture CA (mm):**

Thickness Tolerance (mm):

±0.1

Clear Aperture (%):

88

Optical Properties

Angle of Incidence (°):

0 ±2

Bandwidth (nm):

>1000

OD 6 Blocking Wavelength Range (nm):

657 - 808

Optical Density OD (Average):

≥6.0

Design Wavelength DWL (nm):

808

Substrate:

[Fused Silica](#) (Corning 7980)

Coating:

Hard Coated

Surface Quality:

60-40

Transmission (%):

93

Transmission Wavelength (nm):

818.5 - 1822.6

Edge Steepness (nm):

4.0

Transition Width (nm):

<8.1

Laser Blocking Wavelength (nm):

808

Damage Threshold, By Design:

0.5 J/cm² @ 266nm, 10ns, 10Hz

1 J/cm² @ 532nm, 10ns, 10Hz

Threading & Mounting

Mount Thickness (mm):

3.5

Environmental & Durability Factors

Durability:

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

Regulatory Compliance

RoHS 2015:

[Compliant](#)

Reach 209:

[Compliant](#)

Certificate of Conformance:

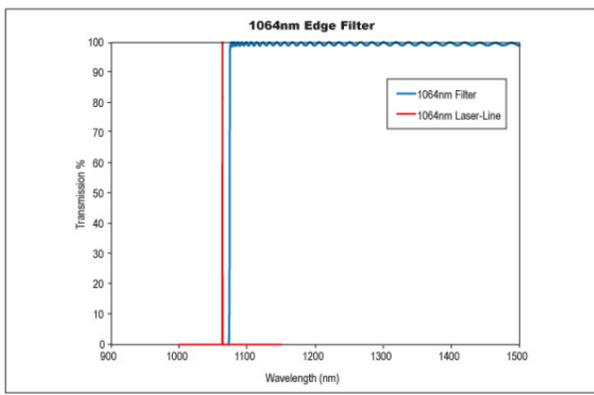
[View](#)

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
