

TECHSPEC® 514.5nm, 50mm Diameter, Raman Edge Filter



Stock **#86-258** 3 In Stock

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C\$3,122^{.00}

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Volume Pricing	
Qty 1-9	C\$3,122.00 each
Qty 10-25	C\$2,654.40 each
Qty 26-49	C\$2,497.60 each
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SPECIFICATIONS

General

Longpass Filter

Type:

Bandwidth (nm): >600

Note:

Physical & Mechanical Properties	
50.00 +0.0/-0.1	Diameter (mm):
±0.1	Thickness Tolerance (mm):
>80	Clear Aperture (%):
Optical Properties	
0 ±2	Angle of Incidence (°):
≥6.0	Optical Density OD (Average):
519.60	Cut-On Wavelength (nm):
514.5	Design Wavelength DWL (nm):
Fused Silica (Corning 7980)	Substrate:
Hard Coated	Coating:
416 - 514.5	Rejection Wavelength (nm):
60-40	Surface Quality:
>93	Transmission (%):
<5.1	Transition Width (nm):
<λ/4 @ 633nm	Transmitted Wavefront, RMS:
T _{avg} ≥93% @ 521.2 - 1160.5nm	Coating Specification:
416 - 1161	Wavelength Range (nm):
514.5	Laser Blocking Wavelength (nm):
Threading & Mounting	
3.5	Mount Thickness (mm):
Environmental & Durability Factors	
Environmental: ML-STD-810F Physical: ML-C-48497A	Durability:
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

PRODUCT DETAILS

- High Transmission for Detecting Weak Signals
- Deep Blocking for Maximum Laser Rejection
- Ideal for Raman Spectroscopy or Life Science Instrumentation

TECHSPEC® Raman Longpass Edge Filters are single filter solutions for reducing spectral noise in Stokes shift applications. These filters are designed to create sharp transitions between transmitted Raman signals and blocked laser wavelengths. Designed to detect even the smallest Raman shifts, TECHSPEC Raman Longpass Edge Filters are ideal for integration into Raman spectroscopy or confocal microscopy systems. The hard coated design offers superior transmission characteristics than comparable traditional coated filters.

CUSTOM

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

COMPATIBLE MOUNTS

