

Steep Edge Laser Line Longpass Filters

Now, there's an alternative to the more expensive solutions offering steep edges and deep blocking in long pass laser line filters! Optometrics, using its IAD oxide coating process, now provides durable high performing filters with > 6.0 OD at the laser line, high image quality and high transmission, enabling the detection of very weak signals. Additionally, with the edge width from the 50% point to the laser wavelength $< 1.5\%$ and with average transmission $> 90\%$ for bandwidth ranges 400-900nm, these filters are ideal for most applications in laser induced fluorescence, Raman microscopy and astronomical applications. These are now available at competitive prices.



- **Hard Coat (IAD), Durable Per MIL-C48497**
- **Optical Density ≥ 6.0**
- **Transition Band $< 1.5\%$**
- **Ring Mounted**

For Applications In:

**Fluorescence
Raman Spectroscopy**

Features

- Transition Band $< 1.5\%$
- Laser Wavelengths 355nm, 488 nm, 514.5nm, 532nm, 632.8nm, 785nm, 1064nm
- Ring Mounted
- Transmission $> 90\%$ (avg.)
- Optical Density ≥ 6.0 (avg.)
- Similar coated filters have withstood $> 1\text{J}/\text{CM}^2$ @ 10ns @ 532nm

General Specifications

Dimensions	25mm diameter +0.00mm, -0.1mm
Thickness	7.5mm + 0.00mm, -0.1mm
Clear Aperture	$> 80\%$
Mounting	Black anodized aluminum ring
Scratch/Dig	60/40 per Mil-O-13830A
Substrate Material	Fused Silica
Transmitted Wavefront	$< 1/2$ wave @ 633nm
Angle of Incidence	$\pm 2^\circ$
Temperature Coefficient	$< .003\text{nm}/^\circ\text{C}$
Coating	IAD Refractory Oxides, Durable Per MIL-C48497 Severe Abrasion

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Catalog No.	Laser Line	Transmission (avg.)	Transmission Range
8750-355	355nm	89%	362-755nm
8750-488	488nm	90%	494-1080nm
8750-514	514.5nm	90%	520.6-1125nm
8750-532	532nm	90%	539.4-1150nm
8750-632	632.8nm	90%	639.7-1375nm
8750-785	785nm	90%	795-1685nm
8750-1064	1064nm	90%	1077-2000nm

