OMEGA OPTICAL | OMEGA OPTICAL HOLDINGS

LASER COMPONENTS®

QUANTAMAX™ LASER DIODE CLEAN-UP FILTERS

- Rejects undesirable diode emissions
- Exceptional transmission >90%

QuantaMAX

In the fast growing category of applications and instrumentation that utilize laser sources such as Raman Spectroscopy, Confocal and Multiphoton Microscopy, and Flow Cytometry, it is critical to eliminate all unwanted laser background, scatter, and plasma in order to optimize signal-to-noise. Laser line and shortpass edge filters can be used to clean-up the signal at the laser source. Longpass edge and laser rejection filters can be used for rejecting unwanted noise at the detector.

Laser Diode Filters are designed to maximize transmission of the primary emission wavelength of the diode, while eliminating secondary extended emissions that are typical of laser diodes. The precision plane parallel substrates allow for minimum beam deviation and low wavefront error. It is also possible to tilt tune these filters to optimize the peak output of the laser diode/filter combination.

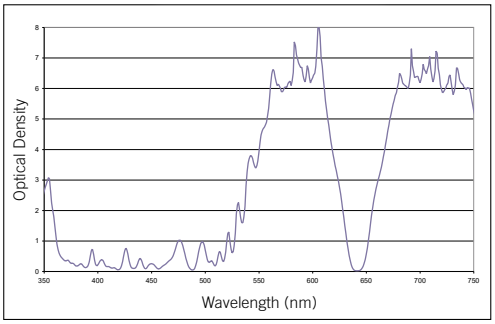
QuantaMAX™ Laser Diode Clean-Up Filters

Laser Diode (nm)	T% and Bandwidth	Product SKU	Description
375	> 90% over 6 nm	XLD375	375BP6
405	> 90% over 6 nm	XLD405	405BP6
440	> 90% over 8 nm	XLD440	440BP8
470	> 90% over 10 nm	XLD470	470BP10
535	> 90% over 10 nm	XLD535	535BP10
640	> 90% over 10 nm	XLD640	640BP10
785	> 90% over 10 nm	XLD785	785BP10

Specifications

Physical	**Size**	Stock and custom sizes available
	Thickness	< 4.0 mm
Transmission Ripple	< +/- 1.5% typical	
Angle of Incidence	0.0° +/- 5.0°	
Transmitted Wavefront Error	< 0.5 λ over the clear aperture at 633 nm	
Beam Deviation	< 15 arc seconds	
Surface Quality	E/E per MIL-C-48497A	
Filter Construction	Single substrate surface coated	

XLD640 – actual representation



- CUSTOM CONFIGURATIONS AVAILABLE UPON REQUEST

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