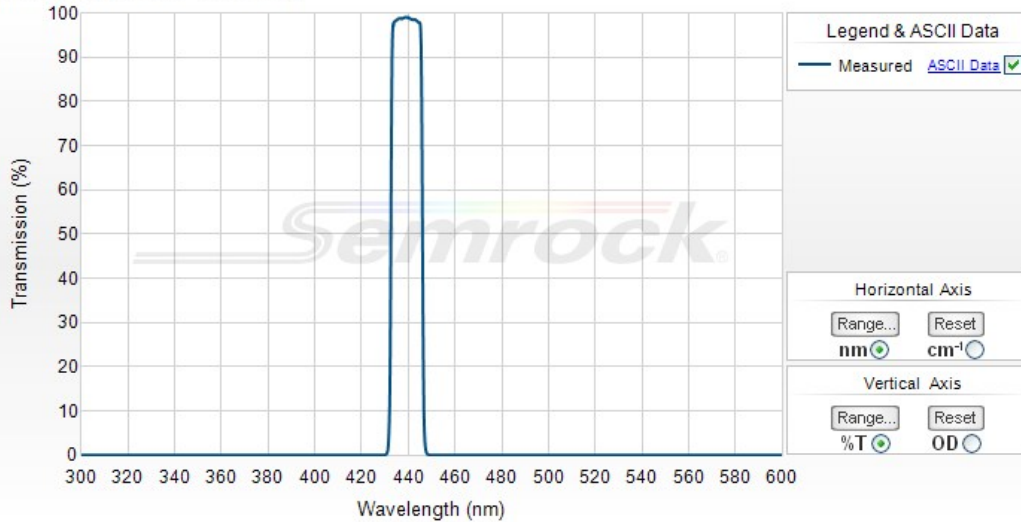


## 439/8 nm MaxDiode™ laser clean-up

Part Number: LD01-439/8-12.5



### Semrock, Inc

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Main Phone: +1 585.594.7050 (worldwide)  
Toll Free Phone: 866.736.7625 (866-SEMROCK)  
(within US and Canada)

Your filter spectrum may differ slightly from the typical spectrum above, but is certified to meet the optical specifications noted below.



### 439/8 nm MaxDiode™ laser clean-up

Keep the desirable laser light while eliminating the noise. MaxDiode laser clean-up filters are ideal for both volume laser-based instrumentation as well as laboratory use of diode lasers for fluorescence excitation and other spectroscopic applications.

Part Number	Size	Price <sup>1</sup>	Stock Status
LD01-439/8-12.5	12.5 mm x 3.5 mm	\$265	In Stock
LD01-439/8-25	25 mm x 3.5 mm	\$530	In Stock

Don't see a size you need? Contact us for custom sizing – available in less than a week (sizing fee applies).

1) US domestic pricing only. If you are ordering from outside the US, please contact your nearest [regional distributor](#) for the correct list price.

### Optical Specifications

Specification	Value
Transmission Band 1	T <sub>avg</sub> > 90% 435 – 443 nm
Center Wavelength 1	439 nm
Guaranteed Minimum Bandwidth 1	8 nm
FWHM Bandwidth 1 (nominal)	14.1 nm
Blocking Band 1	OD <sub>avg</sub> > 3 281 – 425 nm
Blocking Band 2	OD <sub>avg</sub> > 5 392 – 422 nm
Blocking Band 3	OD <sub>avg</sub> > 5 456 – 499 nm
Blocking Band 4	OD <sub>avg</sub> > 3 453 – 609 nm

### General Filter Specifications

Specification	Value
Laser Wavelength 1	439 nm
Angle of Incidence	0 ± 5 degrees
Cone Half-angle	0.5 degrees
Optical Damage Rating	Not tested
Effective Index	2.07

### Physical Filter Specifications (applies to standard sized parts; contact us regarding other sizes)

Specification	Value
Transverse Dimensions (Diameter)	12.5 mm
Transverse Dimensions 2 (Diameter)	25 mm
Transverse Tolerance (mounted)	+ 0.0 / - 0.1 mm
Filter Thickness (Mounted)	3.5 mm
Filter Thickness Tolerance (Mounted)	± 0.1 mm

Clear Aperture	$\geq 10$ mm
Clear Aperture 2	$\geq 22$ mm
Scratch-Dig	60-40
Substrate Thickness (unmounted)	2.0 mm
Substrate Thickness Tolerance (unmounted)	$\pm 0.1$ mm
Orientation	Arrow on ring indicates preferred direction of propagation of light