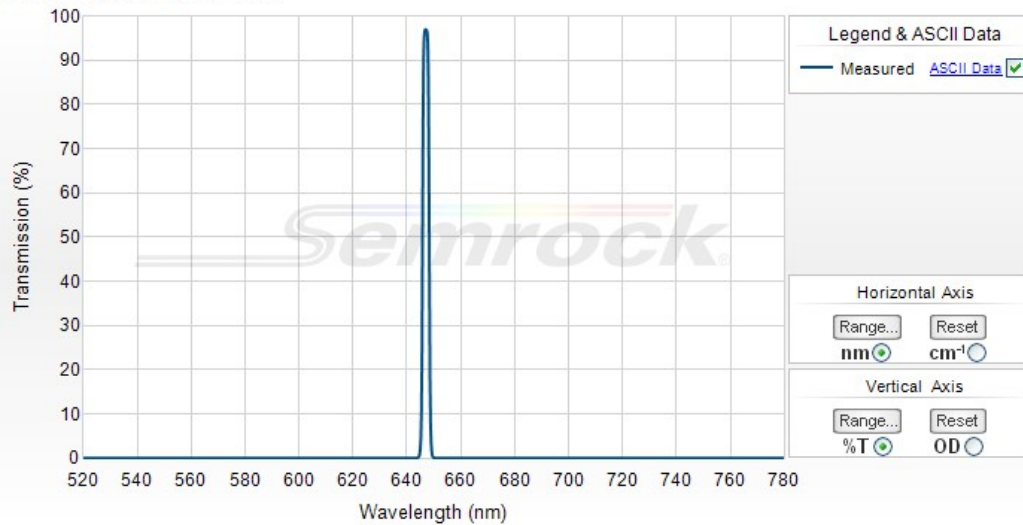


647.1 nm MaxLine® laser clean-up filter

Part Number: LL01-647-12.5



Semrock, Inc

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(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.



647.1 nm MaxLine® laser clean-up filter

MaxLine laser-line filters transmit greater than 90% of the light at a precisely defined laser line, while offering incredibly steep edges to eliminate optical noise from non-lasing (plasma) lines and spontaneous emission.

Part Number	Size	Price ¹	Stock Status
LL01-647-12.5	12.5 mm x 3.5 mm	\$305	In Stock
LL01-647-25	25 mm x 3.5 mm	\$610	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	Tab _s > 90% 647.1 nm
Center Wavelength 1	647.1 nm
Guaranteed Minimum Bandwidth 1	Transmission guaranteed for laser wavelength only
FWHM Bandwidth 1 (nominal)	2.5 nm (typical); 4.5 nm (maximum)
Blocking Band 1	OD _{abs} > 5 524.8 – 640.6 nm
Blocking Band 2	OD _{abs} > 6 595.3 – 637.4 nm
Blocking Band 3	OD _{abs} > 6 656.8 – 711.8 nm
Blocking Band 4	OD _{abs} > 5 653.6 – 912.9 nm

General Filter Specifications

Specification	Value
Laser Wavelength 1	647.1 nm
Angle of Incidence	0 ± 2 degrees
Cone Half-angle	0.5 degrees
Optical Damage Rating	0.1 J/cm ² @ 532 nm (10 ns pulse width)
Effective Index	2.1

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