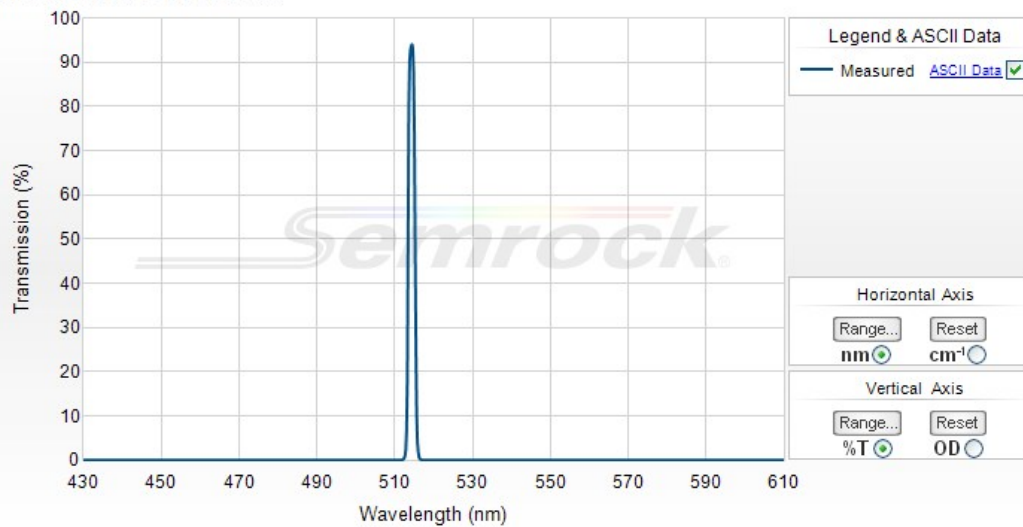


514.5 nm MaxLine® laser clean-up filter

Part Number: LL01-514-12.5



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.



514.5 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 |
|---------------|------------------|--------------------|--------------|
| LL01-514-12.5 | 12.5 mm x 3.5 mm | \$305 | In Stock |
| LL01-514-25 | 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 | Tabs > 90% 514.5 nm |
| Center Wavelength 1 | 514.5 nm |
| Guaranteed Minimum Bandwidth 1 | Transmission guaranteed for laser wavelength only |
| FWHM Bandwidth 1 (nominal) | 2.0 nm (typical); 3.6 nm (maximum) |
| Blocking Band 1 | ODabs > 5 434.1 – 509.4 nm |
| Blocking Band 2 | ODabs > 6 473.3 – 506.8 nm |
| Blocking Band 3 | ODabs > 6 522.2 – 566 nm |
| Blocking Band 4 | ODabs > 5 519.6 – 669.5 nm |

General Filter Specifications

| Specification | Value |
|-----------------------|--|
| Laser Wavelength 1 | 514.5 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 | 2.16 |

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 |