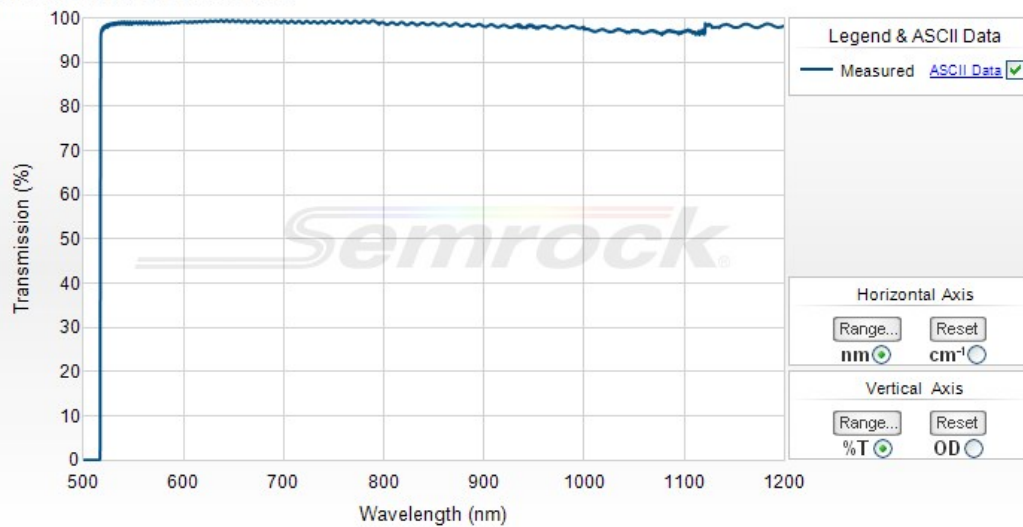


514 nm RazorEdge® ultrasteep long-pass edge filter

Part Number: LP02-514RE-25



Semrock, Inc

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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 nm RazorEdge® ultrasteep long-pass edge filter

RazorEdge filters allow you to see the weakest signals closer to the laser line, especially for Raman spectroscopy applications. With their deep laser-line blocking, ultrawide and low-ripple passbands, hard-coated reliability, and high laser damage threshold, they offer lasting performance and value.

Part Number	Size	Price1	Stock Status
LP02-514RE-25	25 mm x 3.5 mm	\$1,025	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	$T_{avg} > 93\%$ 517.8 – 1160.5 nm
Edge Wavelength 1	515.7 nm
Blocking Band 1	$OD_{abs} > 6$ 514.5 nm
Blocking Band 2	$OD_{avg} > 6$ 416 – 514.5 nm (typical)
Transition Width (nm)	2.6 nm
Transition Width (cm-1)	97 cm-1
Edge Steepness (%)	0.2%
Edge Steepness (nm)	1.0 nm
Edge Steepness (cm-1)	38.8 cm-1

General Filter Specifications

Specification	Value
Laser Wavelength 1	514.5 nm
Angle of Incidence	0 ± 2 degrees
Cone Half-angle	5 degrees
Optical Damage Rating	0.5 J/cm ² @ 266 nm (10 ns pulse width), 1 J/cm ² @ 532 nm (10 ns pulse width)
Effective Index	1.95

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

Specification	Value
Transverse Dimensions (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	> 22 mm

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