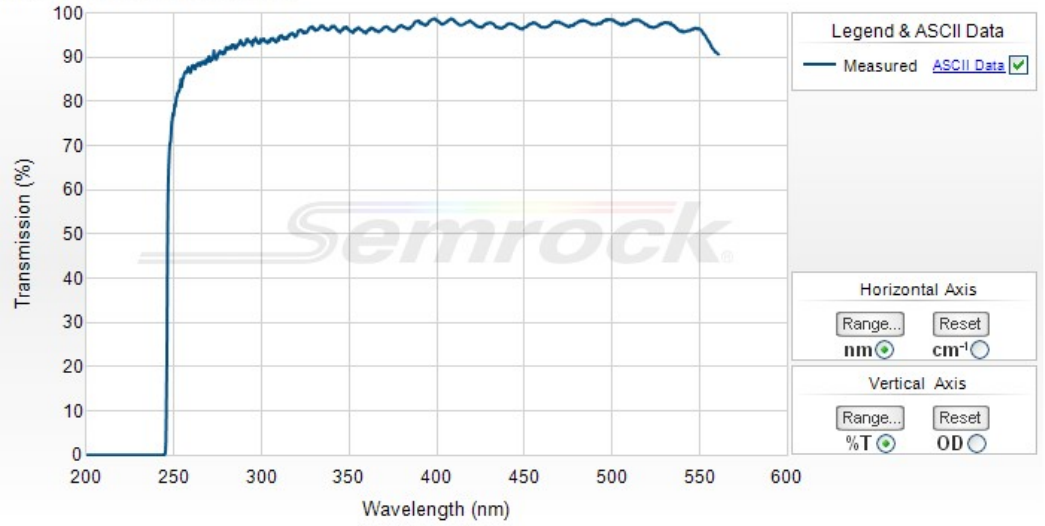
244 nm RazorEdge® ultrasteep long-pass edge filter
Part Number: LP02-244RS-25



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

244 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	Price[1]	Stock Status
LP02-244RS-25	25 mm x 3.5 mm	$1,145	In Stock

Don't see a size you need? Contact us for custom sizing – delivery confirmed ARO (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} > 90% 247.6 – 550.4 nm
Edge Wavelength 1	246.2 nm
Blocking Band 1	OD_{abs} > 6 244 nm
Blocking Band 2	OD_{avg} > 6 195.2 – 244 nm (typical)
Transition Width (nm)	3 nm
Transition Width (cm-1)	497.8 cm^{-1}
Edge Steepness (%)	0.8%
Edge Steepness (nm)	2.0 nm
Edge Steepness (cm-1)	319.2 cm-1

General Filter Specifications

Specification	Value
Laser Wavelength 1	244 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)
Filter Effective Index	2.2 Understanding 'Effective Index of Refraction' n_{eff}

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