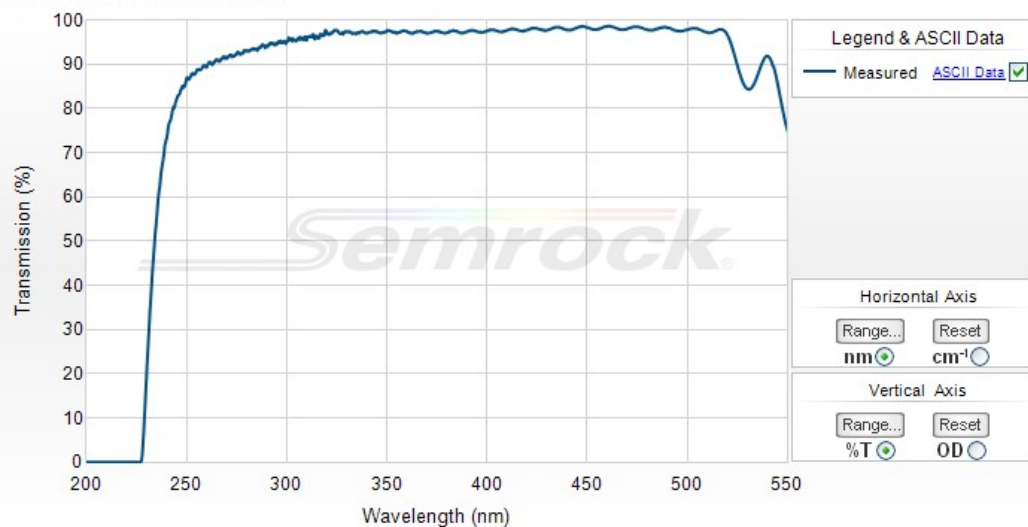


224 nm RazorEdge® ultrasteep long-pass edge filter

Part Number: LP02-224R-25



IDEX Health & Science

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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.



224 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
LP02-224R-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% 235 – 505.9 nm
Edge Wavelength 1	235.6 nm
Blocking Band 1	OD _{abs} > 6 224.3 nm
Blocking Band 2	OD _{avg} > 6 202 – 224.3 nm (typical)
Transition Width (nm)	10.1 nm
Transition Width (cm ⁻¹)	1920 cm ⁻¹
Edge Steepness (%)	3.3%
Edge Steepness (nm)	7.4 nm
Edge Steepness (cm ⁻¹)	1424.2 cm ⁻¹

General Filter Specifications

Specification	Value
Laser Wavelength 1	224.3 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	3.2 Understanding 'Effective Index of Refraction' <i>neff</i>

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