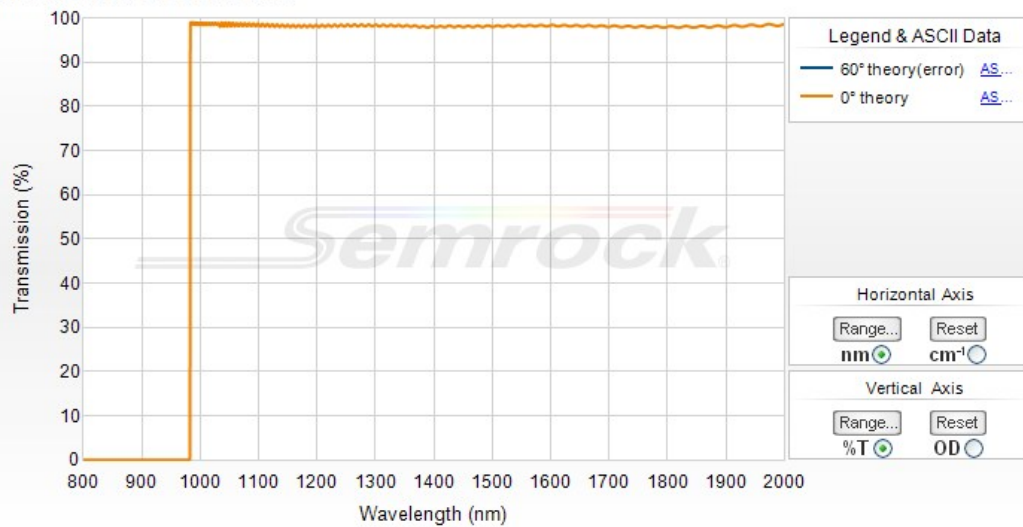


980 nm RazorEdge® ultrasteep long-pass edge filter

Part Number: LP02-980RE-25



Semrock
A Unit of IPX Corporation

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.

Note that the few % dip in transmission at about 1390 nm is a small absorption loss associated with a vibrational overtone of OH bonds in the fused silica substrate of this optical filter.



980 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 |
|---------------|----------------|--------------------|--------------|
| LP02-980RE-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% 986.4 – 2000 nm |
| Edge Wavelength 1 | 982.9 nm |
| Blocking Band 1 | OD _{abs} > 6 980 nm |
| Blocking Band 2 | OD _{avg} > 6 784 – 980 nm (typical) |
| Transition Width (nm) | 4.9 nm |
| Transition Width (cm ⁻¹) | 51 cm ⁻¹ |
| Edge Steepness (%) | 0.2% |
| Edge Steepness (nm) | 2.0 nm |
| Edge Steepness (cm ⁻¹) | 20.4 cm ⁻¹ |

General Filter Specifications

| Specification | Value |
|-----------------------|--|
| Laser Wavelength 1 | 980 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 | 2.03 |

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 |
| 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 |