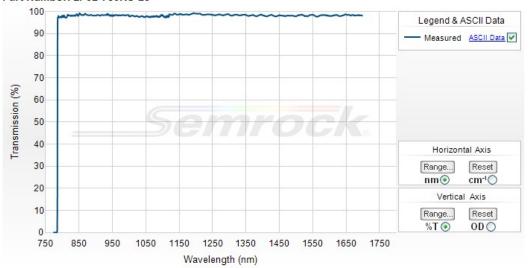
### 780 nm RazorEdge® ultrasteep long-pass edge filter

## Part Number: LP02-780RU-25





#### Semrock, Inc

3625 Buffalo Road, Suite 6 Rochester, New York 14624

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.



#### 780 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	
LP02-780RU-25	25 mm x 3.5 mm	\$695	In Stock	
LP02-780RU-50	50 mm x 3.5 mm	\$1,985 2nd Day Ship		

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	Tavg > 93% 790.1 – 1759.4 nm
Edge Wavelength 1	787 nm
Blocking Band 1	ODabs > 6 780 nm
Blocking Band 2	ODavg > 6 633 – 780 nm (typical)
Transition Width (nm)	7.8 nm
Transition Width (cm-1)	127 cm-1
Edge Steepness (%)	0.5%
Edge Steepness (nm)	3.9 nm
Edge Steepness (cm-1)	63.8 cm-1

## **General Filter Specifications**

Specification	Value
Laser Wavelength 1	780 nm
Angle of Incidence	0 ± 2 degrees
Cone Half-angle	5 degrees
Optical Damage Rating	0.5 J/cm <sup>2</sup> @ 266 nm (10 ns pulse width), 1 J/cm <sup>2</sup> @ 532 nm (10 ns pulse width)
Effective Index	1.78

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

Specification	Value
Transverse Dimensions (Diameter)	25 mm
Transverse Dimensions 2 (Diameter)	50 mm
Transverse Tolerance (mounted)	+ 0.0 / – 0.1 mm
Filter Thickness (Mounted)	3.5 mm

Tille Hilloniess (Woulded)	J.3 mm
Filter Thickness Tolerance (Mounted)	± 0.1 mm
Clear Aperture	≥ 22 mm
Clear Aperture 2	≥ 45 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