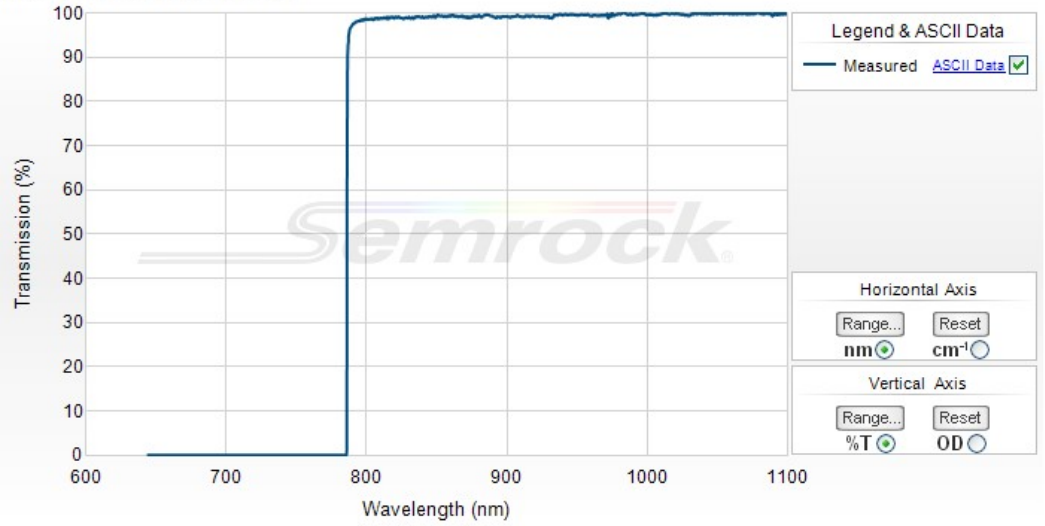
785 nm Verona™ long-pass Raman edge filter
Part Number: VLP01-785-12.5



Semrock
A Unit of IDEX Corporation

IDEX Health & Science
Center of Excellence
1180 John Street
Rochester, New York 14586

Main Phone: +1 585.625.5000 (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.

785 nm Verona™ long-pass Raman edge filter

Verona™ improved transition width and low ripple enables you to collect more Raman signal closer to the laser line. We offer deep blocking at the laser line and high transmission. All our measurements and specifications are backed by the Kola Deep™ Spectral Measurement System.

Part Number	Size	Price[1]	Stock Status
VLP01-785-12.5	12.5 mm x 5.0 mm	$775	In Stock

For custom options, please contact Advanced Thin Films at 303-815-1545 or semrock@idexcorp.com

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	T_{avg} > 93% 788.9 – 1300 nm
Transmission Ripple	T_{ripple} < 2% 788.9 – 1300 nm
Guaranteed Minimum Bandwidth 1	xx nm
Transition Width (nm)	< 1.6 nm from 785 nm to T = 50%
Blocking Band 1	OD_{abs} > 6 785 nm
Blocking Band 2	OD_{avg} > 6 650 – 785 nm
Transition Width (nm)	< 1.6 nm from 785 nm to T = 50%
Transition Width (cm-1)	< 25.9 cm-1
Edge Steepness (cm-1)	< 12.7 cm-1 from OD = 6 to T = 50%

General Filter Specifications

Specification	Value
Laser Wavelength 1	785 nm
Angle of Incidence	0 ± 2 degrees
Cone Half-angle	0 degrees
Optical Damage Rating	Testing has proven to show no signs of degradation when exposed to at least 6.0 W of power from an unfiltered xenon arc lamp over a 25 mm diameter (corresponding to 1.2 W/cm2) for over 500 hrs.
Filter Effective Index	1.76 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)	12.5 mm
Transverse Tolerance (mounted)	+ 0.0 / – 0.1 mm
Filter Thickness (Mounted)	5 mm
Filter Thickness Tolerance (Mounted)	± 0.1 mm

Clear Aperture	≥ 10 mm
Scratch-Dig	60-40
Substrate Thickness (unmounted)	3.0 mm
Substrate Thickness Tolerance (unmounted)	± 0.1 mm
Orientation	Arrow on ring indicates preferred direction of propagation of light
Substrate Type	Fused Silica