# 1116 nm VersaChrome Edge™ tunable longpass filter

## Part Number: TLP01-1116-25x36





#### 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.



### 1116 nm VersaChrome Edge™ tunable longpass filter

VersaChrome filters do what no thin-film filter has done before – offer tunability over a very wide range of wavelengths by adjusting the angle of incidence with essentially no change in spectral performance. They combine the spectral characteristics and two-dimensional imaging performance of a thin-film filter with the wavelength-tuning flexibility of a diffraction grating.

VersaChrome Edge tunable filters unlock virtually unlimited spectral flexibility for fluorescence microscopy and hyperspectral imaging, as well as for spectroscopy applications. By utilizing a combination of VersaChrome Edge tunable long-wave pass and short-wave pass filters, a bandpass filter as narrow as sub 5nm FWHM or as wide as 12% of the center wavelength throughout the visible and near-infrared wavelength ranges can be created. Semrock's patented tunable thin-film filters can't be found anywhere else in the market.

Visit our VersaChrome Edge™ tunable filters page for additional information.

Part Number	Size	Price1	Stock Status	
TLP01-1116-25x36	25.2 mm x 35.6 mm x 2.0 mm (unmounted)	\$845	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 Value 1	Tavg > 93% over 143 nm	
Edge Wavelength (0 deg)	1116 nm (minimum)	
Blocking Band 1	ODavg > 6 866 - (0.98*Edge Wavelength 0deg) nm	
Cuton Transition Width	2.5% (from blocking to transmission)	
Transmission Band 1 (60 deg)	Tavg > 90% over 127 nm	
Edge Wavelength (60 deg)	995 nm (maximum)	
Blocking Band 1 (60 deg)	ODavg > 6 866 - (0.975*Edge Wavelength 60deg) nm	
Cuton Transition Width (60 deg)	3% (from blocking to transmission)	

# **General Filter Specifications**

Specification	Value	
Angle of Incidence	0 – 60 degrees	
Cone Half-angle	0 degrees	
Optical Damage Rating	Not tested	
Effective Index	1.70	

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

Specification	Value	
Transverse Dimensions (L x W)	25.2 mm x 35.6 mm	
Transverse Tolerance	± 0.1 mm	
Filter Thickness (unmounted)	2.0 mm	

Filter Thickness Tolerance (unmounted)	± 0.1 mm
Clear Aperture	≥ 80% (elliptical)
Scratch-Dig	60-40
Substrate Thickness (unmounted)	2.0 mm
Substrate Thickness Tolerance (unmounted)	± 0.1 mm
Orientation	Reflective surface marked with part number - Orient in direction of incoming light