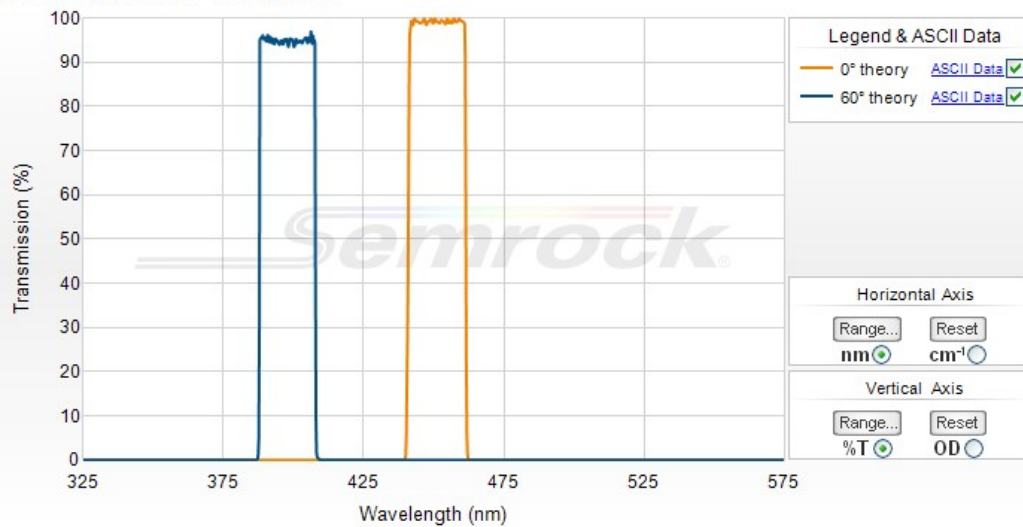


## 449/15 nm VersaChrome® tunable bandpass filter

Part Number: TBP01-449/15-25x36



### 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.



### 449/15 nm VersaChrome® tunable bandpass 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.

Part Number	Size	Price <sup>1</sup>	Stock Status
TBP01-449/15-25x36	25.2 mm x 35.6 mm x 2.0 mm (unmounted)	\$945	In Stock

Don't see a size you need? Contact us for custom sizing – available in less than a week (sizing fee applies).

<sup>1</sup> 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 <sub>avg</sub> > 90%
Center Wavelength 1	448.8 nm (minimum)
Guaranteed Minimum Bandwidth 1	15 nm
FWHM Bandwidth 1 (nominal)	20 nm
Blocking Band 1	OD <sub>avg</sub> > 6 275 – 1100 nm
Cuton Transition Width	2% (from blocking to transmission)
Cutoff Transition Width	2% (from transmission to blocking)
Transmission Band 1 (60 deg)	T <sub>avg</sub> > 80%
Center Wavelength 1 (60 deg)	400 nm (minimum)
Guaranteed Minimum Bandwidth 1 (60 deg)	15 nm
FWHM Bandwidth 1 (nominal) (60 deg)	20 nm
Blocking Band 1 (60 deg)	OD <sub>avg</sub> > 6 275 – 925 nm
Cuton Transition Width (60 deg)	2.5% (from blocking to transmission)
Cutoff Transition Width (60 deg)	2% (from transmission to blocking)

### General Filter Specifications

Specification	Value
Angle of Incidence	0 – 60 degrees
Cone Half-angle	0 degrees
Optical Damage Rating	Not tested
Effective Index	1.80

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

Specification	Value
<a href="http://www.Semrock.com/FilterDetails.aspx?id=TBP01-449/15-25x36">www.Semrock.com/FilterDetails.aspx?id=TBP01-449/15-25x36</a>	

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