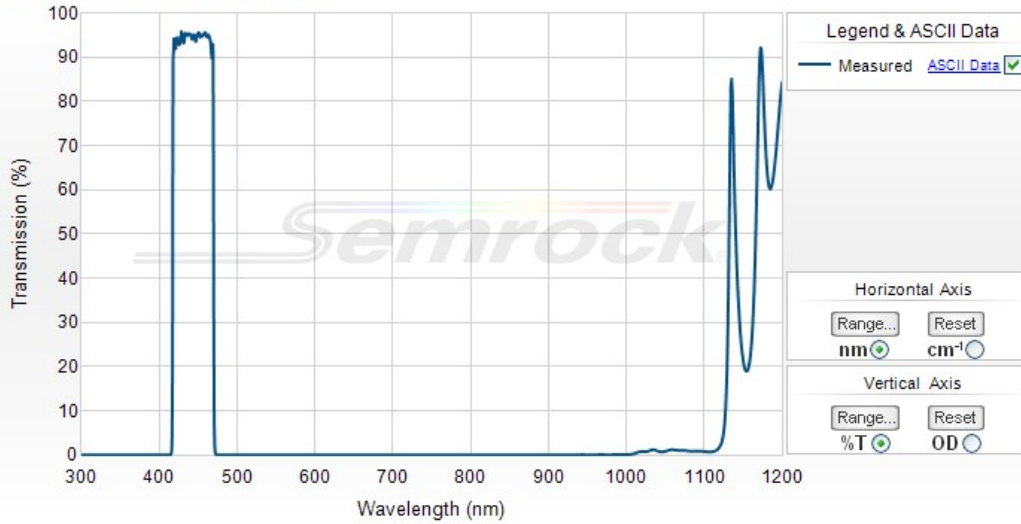


## 442/46 nm BrightLine® single-band bandpass filter

Part Number: CFW-BP01-Clin-25



### Semrock, Inc

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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.



### 442/46 nm BrightLine® single-band bandpass filter

Individual fluorescence bandpass filters that have been optimized for use in a variety of fluorescence instruments. All thin-film, hard-coated construction for unsurpassed performance and reliability.

Part Number	Size	Price <sup>1</sup>	Stock Status
CFW-BP01-Clin-25	25 mm x 3.5 mm	\$305	In Stock
CFW-BP01-Clin-23.3-D	23.3 mm x 2.0 mm (unmounted)	\$305	2nd Day Ship

This part is not available for custom sizing.

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 <sub>avg</sub> > 90% 419 – 465 nm
Center Wavelength 1	442 nm
Guaranteed Minimum Bandwidth 1	46 nm
FWHM Bandwidth 1 (nominal)	50 nm
Blocking Band 1	OD <sub>avg</sub> > 5 200 – 362 nm
Blocking Band 2	OD <sub>avg</sub> > 10 362 – 396 nm (Design specification - <a href="#">measurements are noise-floor limited</a> )
Blocking Band 3	OD <sub>avg</sub> > 5 409 – 409 nm
Blocking Band 4	OD <sub>avg</sub> > 5 480 – 925 nm
Blocking Band 5	OD <sub>avg</sub> > 3 925 – 1000 nm
Blocking Band 6	OD <sub>avg</sub> > 2 1000 – 1100 nm

### General Filter Specifications

Specification	Value
Angle of Incidence	0 ± 5 degrees
Cone Half-angle	7 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/cm <sup>2</sup> ) for over 500 hrs.
Effective Index	2.07

### 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)	$\pm 0.1$ mm
Clear Aperture	$\geq 22$ mm
Scratch-Dig	60-40
Substrate Thickness (unmounted)	2.0 mm
Substrate Thickness Tolerance (unmounted)	$\pm 0.1$ mm
Orientation	Arrow on ring indicates preferred direction of propagation of light