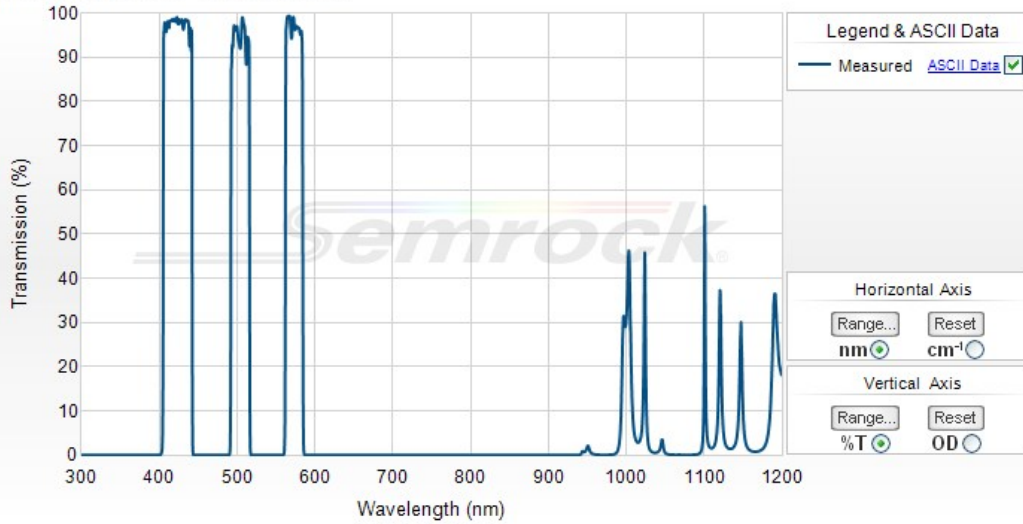


**422/503/572 nm BrightLine® triple-band bandpass filter**

Part Number: FF01-422/503/572-25



**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.



**422/503/572 nm BrightLine® triple-band bandpass filter**

Individual multiband fluorescence bandpass filters that utilize Semrock's patented single-substrate construction. These filters have extremely high transmission, steep and well-defined edges, and outstanding blocking between the passbands. All thin-film, hard-coated construction for unsurpassed performance and reliability.

Part Number	Size	Price <sup>1</sup>	Stock Status
FF01-422/503/572-25	25 mm x 5.0 mm	\$435	In Stock
FF01-422/503/572-21.8-D	21.8 mm x 2.0 mm (unmounted)	\$435	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 > 90% 407 – 437 nm
Center Wavelength 1	422 nm
Guaranteed Minimum Bandwidth 1	30 nm
FWHM Bandwidth 1 (nominal)	36.3 nm
Transmission Band 2	Tavg > 90% 494 – 512 nm
Center Wavelength 2	503 nm
Guaranteed Minimum Bandwidth 2	18 nm
FWHM Bandwidth 2 (nominal)	23.9 nm
Transmission Band 3	Tavg > 90% 563 – 581 nm
Center Wavelength 3	572 nm
Guaranteed Minimum Bandwidth 3	18 nm
FWHM Bandwidth 3 (nominal)	23.4 nm
Blocking Band 1	ODavg > 6 275 – 396 nm
Blocking Band 2	ODavg > 8 450 – 480 nm (Design specification - <a href="#">measurements are noise-floor limited</a> )
Blocking Band 3	ODavg > 8 527 – 547 nm (Design specification - <a href="#">measurements are noise-floor limited</a> )
Blocking Band 4	ODavg > 8 598 – 648 nm (Design specification - <a href="#">measurements are noise-floor limited</a> )
Blocking Band 5	ODavg > 4 664 – 925 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

Optical Damage Rating xenon arc lamp over a 25 mm diameter (corresponding to 1.2 W/cm<sup>2</sup>) for over 500 hrs.

Effective Index 1.88

**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)	5.0 mm
Filter Thickness Tolerance (Mounted)	± 0.1 mm
Clear Aperture	≥ 21 mm
Scratch-Dig	60-40
Substrate Thickness (unmounted)	2.0 mm
Substrate Thickness Tolerance (unmounted)	± 0.1 mm
Orientation	Arrow on ring indicates preferred direction of propagation of light