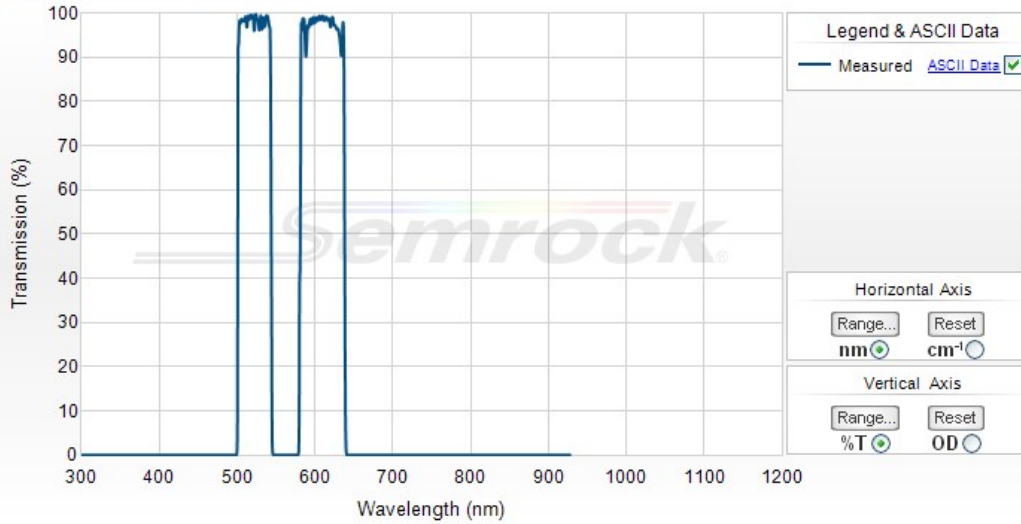


## 523/610 nm BrightLine® dual-band bandpass filter

Part Number: FF01-523/610-25



### Semrock, Inc

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 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.



### 523/610 nm BrightLine® dual-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
FF01-523/610-25	25 mm x 3.5 mm	\$395	In Stock
FF01-523/610-23.3-D	23.3 mm x 2.0 mm (unmounted)	\$395	2nd Day Ship

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> > 93% 503 – 543 nm
Center Wavelength 1	523 nm
Guaranteed Minimum Bandwidth 1	40 nm
FWHM Bandwidth 1 (nominal)	45 nm
Transmission Band 2	T <sub>avg</sub> > 93% 584 – 636 nm
Center Wavelength 2	610 nm
Guaranteed Minimum Bandwidth 2	52 nm
FWHM Bandwidth 2 (nominal)	59.4 nm
Blocking Band 1	OD <sub>avg</sub> > 4 200 – 400 nm
Blocking Band 2	OD <sub>avg</sub> > 4 400 – 473 nm
Blocking Band 3	OD <sub>avg</sub> > 8 473 – 491 nm (Design specification - <a href="#">measurements are noise-floor limited</a> )
Blocking Band 4	OD > 3.5 497 nm
Blocking Band 5	OD > 3.5 551 nm
Blocking Band 6	OD <sub>avg</sub> > 8 559 – 568 nm (Design specification - <a href="#">measurements are noise-floor limited</a> )
Blocking Band 7	OD > 3.5 576 nm
Blocking Band 8	OD <sub>avg</sub> > 5 655 – 700 nm
Blocking Band 9	OD <sub>avg</sub> > 5 700 – 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 1.95

**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)	± 0.1 mm
Clear Aperture	≥ 22 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