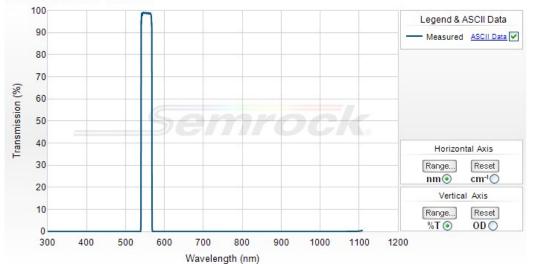
## 554/23 nm BrightLine® single-band bandpass filter

# Part Number: FF01-554/23-25





### 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.



#### 554/23 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	Price1	Stock Status
FF01-554/23-25	25 mm x 5.0 mm	\$305	In Stock
FF01-554/23-25-STR	25 mm threaded ring for Sutter Lambda filter wheel	\$325	2nd Day Ship
FF01-554/23-32	32 mm x 5.0 mm	\$500	Contact Us
FF01-554/23-21.8-D	21.8 mm x 2.0 mm (unmounted)	\$305	Contact Us

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 > 93% 543.0 – 566.0 nm
Center Wavelength 1	554.5 nm
Guaranteed Minimum Bandwidth 1	23 nm
FWHM Bandwidth 1 (nominal)	28.1 nm
Blocking Band 1	ODavg > 5 200 - 300 nm
Blocking Band 2	ODavg > 6 300 - 530 nm
Blocking Band 3	ODavg > 8 414 - 450 nm (Design specification - measurements are noise-floor limited)
Blocking Band 4	ODavg > 8 499.5 - 530 nm (Design specification - measurements are noise-floor limited)
Blocking Band 5	OD > 3.5 536.5 nm
Blocking Band 6	OD > 3.5 573 nm
Blocking Band 7	ODavg > 8 580 - 611 nm (Design specification - measurements are noise-floor limited)
Blocking Band 8	ODavg > 8 659.5 - 800 nm (Design specification - measurements are noise-floor limited)
Blocking Band 9	ODavg > 6 611 - 850 nm
Blocking Band 10	ODavg > 4 850 – 925 nm
Blocking Band 11	ODavg > 2 925 - 1100 nm

### **General Filter Specifications**

Specification	Value	
Angle of Incidence	0 ± 5 degrees	
Cone Half-angle	7 degrees	
0 :: 10	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/cm²) for over 500 hrs.

Effective Index 1.98

## 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