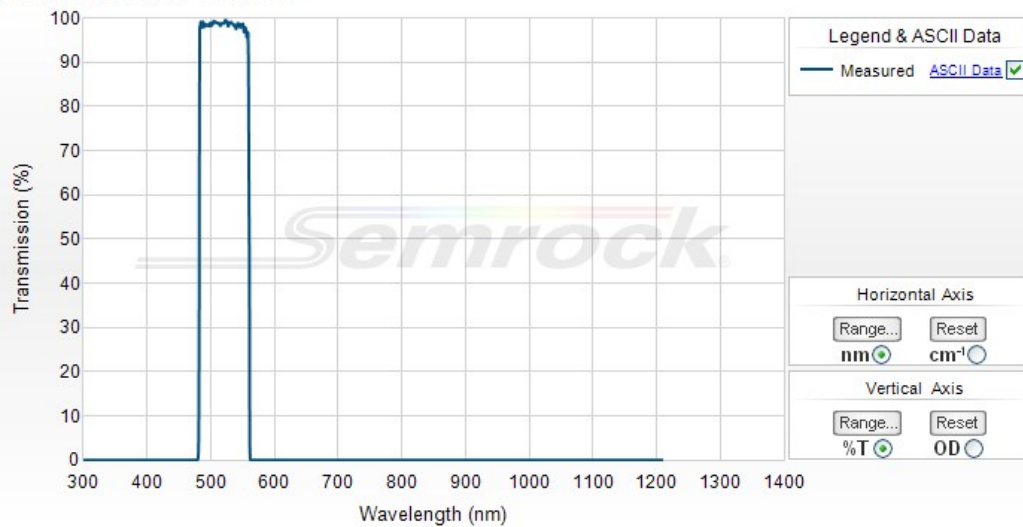


520/70 nm BrightLine® Two-photon emission filter

Part Number: FF01-520/70-25



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. Note that the change in blocking at 1120 nm is due to a change in the detector on the measurement equipment; the filter meets all optical specifications noted below.



520/70 nm BrightLine® Two-photon emission filter

Ultra-high-performance multiphoton fluorescence filters that accommodate a wide range of fluorescence dyes. Designed to be a fixed component in any multiphoton or nonlinear (harmonic-generation) microscope, so that when desired individual, narrower bandpass filters can be added without having to worry about the near-IR blocking of these filters. The transmission bands of these short-pass emitters are so wide, they appear clear at normal incidence.

Part Number	Size	Price ¹	Stock Status
FF01-520/70-25	25 mm x 3.5 mm	\$925	In Stock

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% 485 – 555 nm
Center Wavelength 1	520 nm
Guaranteed Minimum Bandwidth 1	70 nm
FWHM Bandwidth 1 (nominal)	76.5 nm
Blocking Band 1	ODavg > 5 300 – 474.5 nm
Blocking Band 2	ODavg > 6 567.5 – 1200 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 ²) 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)	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	Orientation does not affect performance; therefore there is no arrow on the ring to denote a preferred orientation