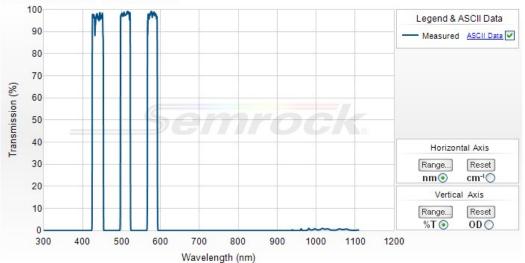
438/509/578 nm BrightLine® triple-band bandpass filter

Part Number: FF01-438/509/578-25





Semrock, Inc

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(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.



438/509/578 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	Price1	Stock Status
FF01-438/509/578-25	New Product	25 mm x 5.0 mm	\$435	In Stock
FF01-438/509/578-32	New Product	32 mm x 5.0 mm	\$713	Contact Us
FF01-438/509/578-21.8-D	New Product	21.8 mm x 2.0 mm (unmounted)	\$435	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

Optical Specifications	
Specification	Value
Transmission Band 1	Tavg > 93% 426 – 450 nm
Center Wavelength 1	438 nm
Guaranteed Minimum Bandwidth 1	24 nm
FWHM Bandwidth 1 (nominal)	28.8 nm
Transmission Band 2	Tavg > 93% 497.6 - 519.5 nm
Center Wavelength 2	509 nm
Guaranteed Minimum Bandwidth 2	21.9 nm
FWHM Bandwidth 2 (nominal)	25.5 nm
Transmission Band 3	Tavg > 93% 567.4 - 588.6 nm
Center Wavelength 3	578 nm
Guaranteed Minimum Bandwidth 3	21.2 nm
FWHM Bandwidth 3 (nominal)	25.2 nm
Blocking Band 1	ODavg > 5 200 - 300 nm
Blocking Band 2	ODavg > 6 300 - 421.1 nm
Blocking Band 3	OD > 3.5 458.5 nm
Blocking Band 4	ODavg > 8 464 - 486 nm (Design specification - measurements are noise-floor limited)
Blocking Band 5	OD > 3.5 491.8 nm
Blocking Band 6	OD > 3.5 525.8 nm
Blocking Band 7	ODavg > 8 532 - 554 nm (Design specification - measurements are noise-floor limited)
Blocking Band 8	OD > 3.5 560.7 nm
Blocking Band 9	OD > 3.5 595.8 nm
Blocking Band 10	ODavg > 8 603 - 800 nm (Design specification - measurements are noise-floor limited)

Blocking Band 11	ODavg > 6 800 - 850 nm	
Blocking Band 12	ODavg > 4 850 - 925 nm	
Blocking Band 13	ODavo > 2 925 - 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/cm²) for over 500 hrs.
Effective Index	1.90

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