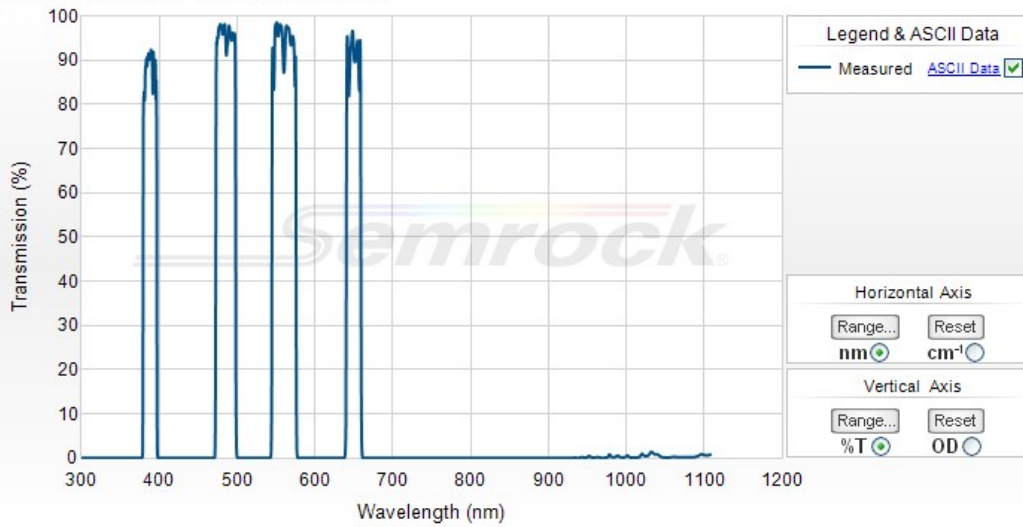


387/485/559/649 nm BrightLine® quad-band bandpass filter

Part Number: FF01-387/485/559/649-25



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.



387/485/559/649 nm BrightLine® quad-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 ¹	Stock Status
FF01-387/485/559/649-25	25 mm x 5.0 mm	\$495	In Stock
FF01-387/485/559/649-21.8-D	21.8 mm x 2.0 mm (unmounted)	\$495	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	T _{avg} > 85% 381.5 – 392.5 nm
Center Wavelength 1	387 nm
Guaranteed Minimum Bandwidth 1	11 nm
FWHM Bandwidth 1 (nominal)	17.1 nm
Transmission Band 2	T _{avg} > 90% 475 – 495 nm
Center Wavelength 2	485 nm
Guaranteed Minimum Bandwidth 2	20 nm
FWHM Bandwidth 2 (nominal)	25.8 nm
Transmission Band 3	T _{avg} > 90% 547 – 572 nm
Center Wavelength 3	559.5 nm
Guaranteed Minimum Bandwidth 3	25 nm
FWHM Bandwidth 3 (nominal)	30.6 nm
Transmission Band 4	T _{avg} > 90% 643 – 656 nm
Center Wavelength 4	649.5 nm
Guaranteed Minimum Bandwidth 4	13 nm
FWHM Bandwidth 4 (nominal)	19.5 nm
Blocking Band 1	OD _{avg} > 6 300 – 370 nm
Blocking Band 2	OD > 3.5 406.3 nm
Blocking Band 3	OD _{avg} > 6 420 – 460 nm
Blocking Band 4	OD > 3.5 467.5 nm
Blocking Band 5	OD > 3.5 502.5 nm
Blocking Band 6	OD _{avg} > 6 510 – 531 nm
Blocking Band 7	OD > 3.5 539 nm

Blocking Band 8	OD > 3.5 580.8 nm
Blocking Band 9	OD _{avg} > 6 589.5 – 623.5 nm
Blocking Band 10	OD > 3.5 633.3 nm
Blocking Band 11	OD > 3.5 666.5 nm
Blocking Band 12	OD _{avg} > 6 677 – 722 nm
Blocking Band 13	OD _{avg} > 4 722 – 925 nm
Blocking Band 14	OD _{avg} > 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/cm ²) for over 500 hrs.

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