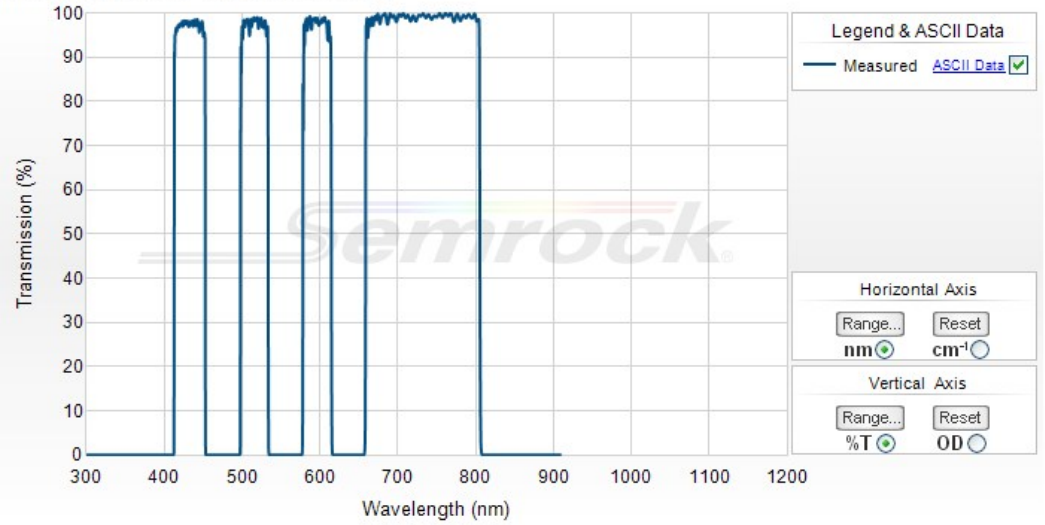
432/515/595/730 nm BrightLine® quad-band bandpass filter
Part Number: FF01-432/515/595/730-25



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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.

432/515/595/730 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
FF01-432/515/595/730-25	25 mm x 3.5 mm	$495	In Stock
FF01-432/515/595/730-23.3-D	23.3 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} > 93% 414 – 450 nm
Center Wavelength 1	432 nm
Guaranteed Minimum Bandwidth 1	36 nm
FWHM Bandwidth 1 (nominal)	39.7 nm
Transmission Band 2	T_{avg} > 93% 499.5 – 530 nm
Center Wavelength 2	514.8 nm
Guaranteed Minimum Bandwidth 2	30.5 nm
FWHM Bandwidth 2 (nominal)	35.5 nm
Transmission Band 3	T_{avg} > 93% 580 – 611 nm
Center Wavelength 3	595.5 nm
Guaranteed Minimum Bandwidth 3	31 nm
FWHM Bandwidth 3 (nominal)	36.2 nm
Transmission Band 4	T_{avg} > 93% 661 – 800 nm
Center Wavelength 4	730.5 nm
Guaranteed Minimum Bandwidth 4	139 nm
FWHM Bandwidth 4 (nominal)	147.2 nm
Blocking Band 1	OD_{avg} > 4 200 – 381 nm
Blocking Band 2	OD_{avg} > 8 381 – 404 nm (Design specification - measurements are noise-floor limited)
Blocking Band 3	OD > 3.5 409 nm
Blocking Band 4	OD > 3.5 455.5 nm
Blocking Band 5	OD_{avg} > 8 461 – 487.5 nm (Design specification - measurements are noise-floor limited)
Blocking Band 6	OD > 3.5 493.5 nm
Blocking Band 7	OD > 3.5 536.5 nm

Blocking Band 8	OD_{avg} > 8 543 – 566 nm (Design specification - measurements are noise-floor limited)
Blocking Band 9	OD > 3.5 573 nm
Blocking Band 10	OD > 3.5 618.5 nm
Blocking Band 11	OD_{avg} > 8 626 – 644 nm (Design specification - measurements are noise-floor limited)
Blocking Band 12	OD > 3.5 651.8 nm
Blocking Band 13	OD_{avg} > 5 815 – 900 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	1.90

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)	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