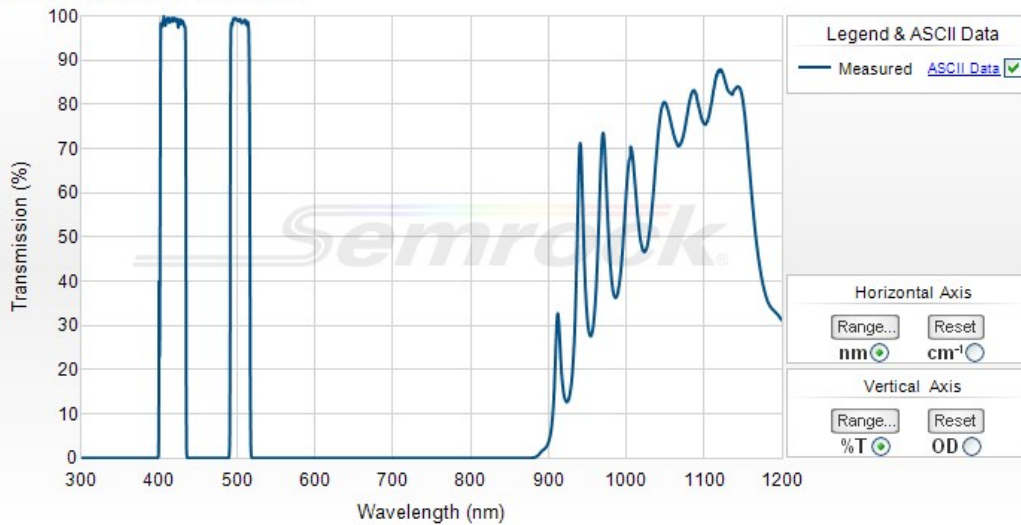


416/501 nm BrightLine® dual-band bandpass filter

Part Number: FF01-416/501-25



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.



416/501 nm BrightLine® dual-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
FF01-416/501-25	25 mm x 5.0 mm	\$395	In Stock
FF01-416/501-21.8-D	21.8 mm x 3.5 mm (unmounted)	\$395	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} > 90% 403.5 – 428.5 nm
Center Wavelength 1	416 nm
Guaranteed Minimum Bandwidth 1	25 nm
FWHM Bandwidth 1 (nominal)	31.6 nm
Transmission Band 2	T _{avg} > 90% 492 – 510 nm
Center Wavelength 2	501 nm
Guaranteed Minimum Bandwidth 2	18 nm
FWHM Bandwidth 2 (nominal)	25.5 nm
Blocking Band 1	OD _{avg} > 6 275 – 393 nm
Blocking Band 2	OD _{avg} > 6 450 – 477 nm
Blocking Band 3	OD _{avg} > 6 529 – 565 nm
Blocking Band 4	OD _{avg} > 4 565 – 850 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
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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)	3.5 mm
Substrate Thickness Tolerance (unmounted)	± 0.1 mm
Orientation	Arrow on ring indicates preferred direction of propagation of light