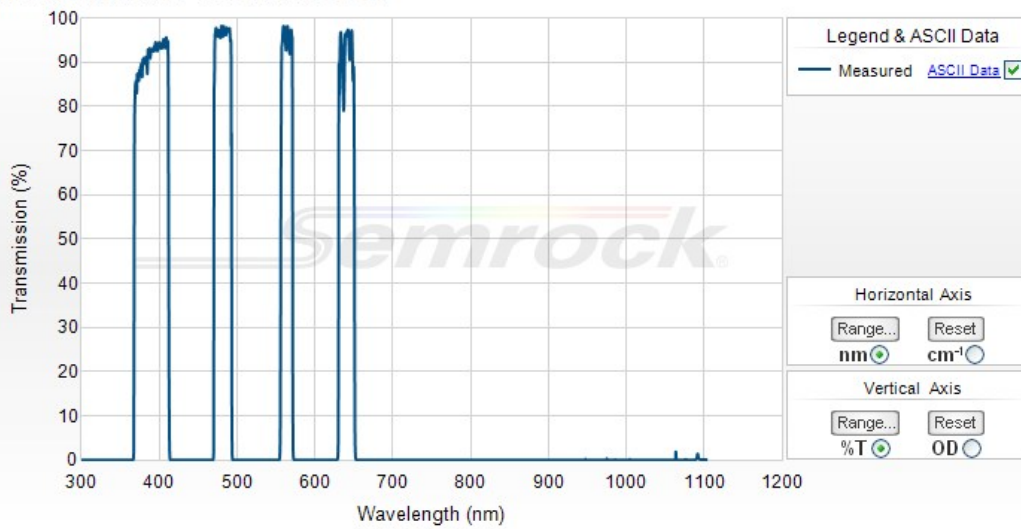


390/482/563/640 nm BrightLine® quad-band bandpass filter

Part Number: FF01-390/482/563/640-25



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.



390/482/563/640 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
FF01-390/482/563/640-25	25 mm x 5.0 mm	\$495	2nd Day Ship
FF01-390/482/563/640-21.8-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% 370 – 410 nm
Center Wavelength 1	390 nm
Guaranteed Minimum Bandwidth 1	40 nm
FWHM Bandwidth 1 (nominal)	44.5 nm
Transmission Band 2	T _{avg} > 90% 473 – 491 nm
Center Wavelength 2	482 nm
Guaranteed Minimum Bandwidth 2	18 nm
FWHM Bandwidth 2 (nominal)	22.4 nm
Transmission Band 3	T _{avg} > 90% 559 – 568.2 nm
Center Wavelength 3	563.5 nm
Guaranteed Minimum Bandwidth 3	9 nm
FWHM Bandwidth 3 (nominal)	14.5 nm
Transmission Band 4	T _{avg} > 90% 632.8 – 647.1 nm
Center Wavelength 4	640 nm
Guaranteed Minimum Bandwidth 4	14 nm
FWHM Bandwidth 4 (nominal)	20 nm
Blocking Band 1	OD _{avg} > 4 200 – 361.5 nm
Blocking Band 2	OD > 3.5 419.8 nm
Blocking Band 3	OD _{avg} > 6 429.5 – 462 nm
Blocking Band 4	OD > 3.5 467.5 nm
Blocking Band 5	OD > 3.5 496.8 nm
Blocking Band 6	OD _{avg} > 6 502.5 – 544.5 nm
Blocking Band 7	OD > 3.5 551.8 nm

Blocking Band 8	OD > 3.5 575 nm
Blocking Band 9	OD _{avg} > 6 582 – 617.5 nm
Blocking Band 10	OD > 3.5 625.3 nm
Blocking Band 11	OD > 3.5 655 nm
Blocking Band 12	OD _{avg} > 6 663 – 700 nm
Blocking Band 13	OD _{avg} > 4 700 – 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.
Effective Index	2.05

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