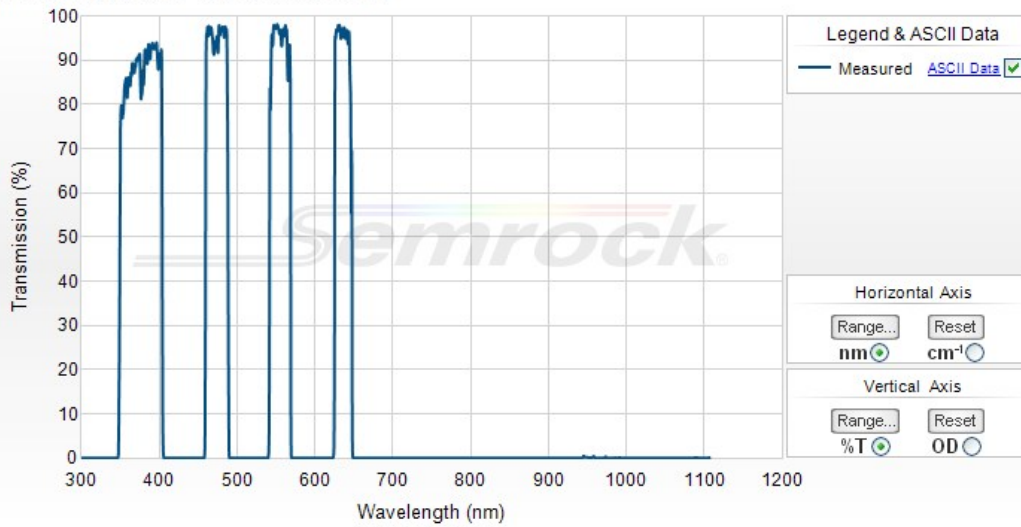


378/474/554/635 nm BrightLine® quad-band bandpass filter

Part Number: FF01-378/474/554/635-25



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.



378/474/554/635 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
FF01-378/474/554/635-25	New Product	25 mm x 5.0 mm	\$495	In Stock
FF01-378/474/554/635-21.8-D	New Product	21.8 mm x 2.0 mm (unmounted)	\$495	In Stock

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% 352 – 404 nm
Center Wavelength 1	377.5 nm
Guaranteed Minimum Bandwidth 1	52 nm
FWHM Bandwidth 1 (nominal)	57.3 nm
Transmission Band 2	T _{avg} 61 – 487.5 nm
Center Wavelength 2	474.1 nm
Guaranteed Minimum Bandwidth 2	26.5 nm
FWHM Bandwidth 2 (nominal)	30.1 nm
Transmission Band 3	T _{avg} 93% 543 – 566 nm
Center Wavelength 3	554.5 nm
Guaranteed Minimum Bandwidth 3	23 nm
FWHM Bandwidth 3 (nominal)	27.6 nm
Transmission Band 4	T _{avg} 626 – 644 nm
Center Wavelength 4	635 nm
Guaranteed Minimum Bandwidth 4	18 nm
FWHM Bandwidth 4 (nominal)	22.9 nm
Blocking Band 1	OD _{avg} 5 200 – 300 nm
Blocking Band 2	OD _{avg} 6 300 – 341.5 nm
Blocking Band 3	OD 3.5 409 nm
Blocking Band 4	OD _{avg} 8 414 – 450 nm (Design specification - measurements are noise-floor limited)
Blocking Band 5	OD 3.5 455.5 nm
Blocking Band 6	OD 3.5 493.5 nm
Blocking Band 7	OD _{avg} 8 499.5 – 530 nm (Design specification - measurements are noise-floor limited)

Blocking Band 8	OD 3.5 536.5 nm
Blocking Band 9	OD 3.5 573 nm
Blocking Band 10	OD _{avg} 8 580 – 611 nm (Design specification - measurements are noise-floor limited)
Blocking Band 11	OD 3.5 618.5 nm
Blocking Band 12	OD 3.5 651.8 nm
Blocking Band 13	OD _{avg} 8 661 – 850 nm (Design specification - measurements are noise-floor limited)
Blocking Band 14	OD _{avg} 4 850 – 925 nm
Blocking Band 15	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	1.77

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