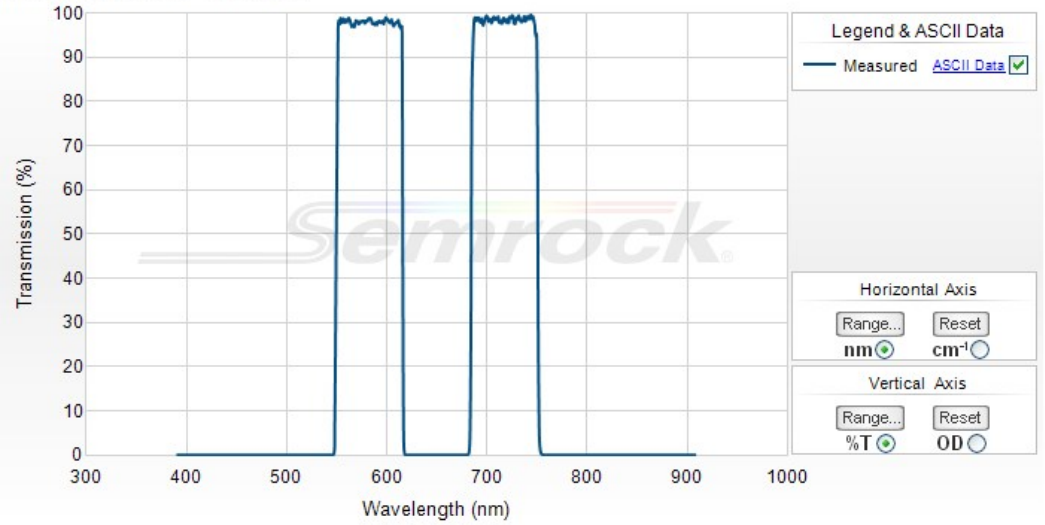
584/718 nm BrightLine® dual-band bandpass filter
Part Number: FF01-584/718-25



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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.

584/718 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
FF01-584/718-25	25 mm x 3.5 mm	$395	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} > 90% 554 - 614 nm
Center Wavelength 1	584 nm
Guaranteed Minimum Bandwidth 1	60nm
FWHM Bandwidth 1 (nominal)	66.3 nm
Transmission Band 2	T_{avg} > 90% 688 - 748 nm
Center Wavelength 2	718nm
Guaranteed Minimum Bandwidth 2	60 nm
FWHM Bandwidth 2 (nominal)	66.4 nm
Blocking Band 1	OD_{avg} > 6 400 - 543 nm
Blocking Band 2	OD_{avg} > 6 627 - 673 nm
Blocking Band 3	OD_{avg} > 6 770 - 800 nm
Blocking Band 4	OD_{avg} > 6 821 - 900 nm
Blocking Band 5	OD > 3.5 xxx nm
Blocking Band 6	OD_{avg} > 8 xxx – yyy nm (Design specification - measurements are noise-floor limited)
Blocking Band 7	OD > 3.5 xxx nm
Blocking Band 8	OD_{avg} > 5 xxx – 700 nm
Blocking Band 9	OD_{avg} > 5 700 – 925 nm
Blocking Band 10	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	1.99

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