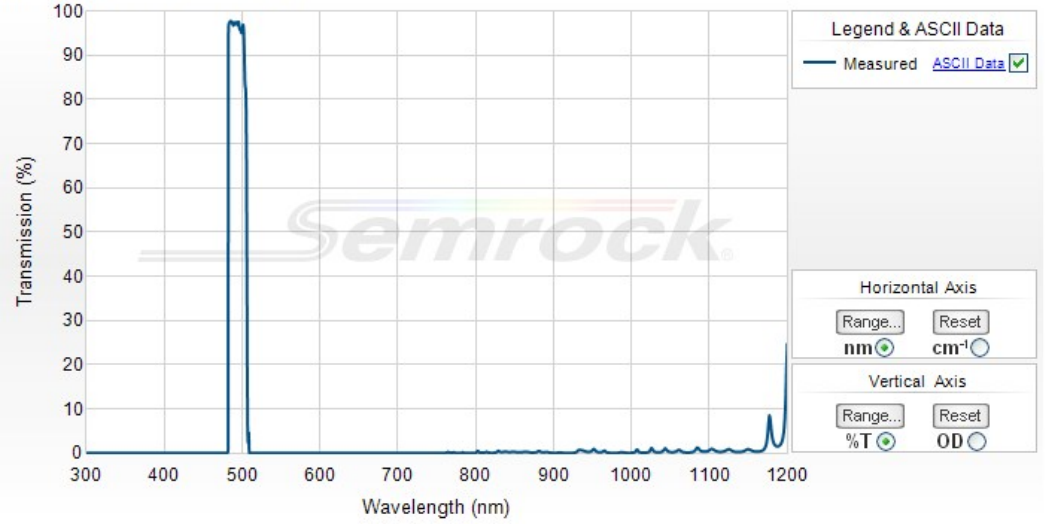
494/20 nm BrightLine® single-band bandpass filter
Part Number: FF01-494/20-25



Semrock
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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.

494/20 nm BrightLine® single-band bandpass filter

Individual fluorescence bandpass filters that have been optimized for use in a variety of fluorescence instruments. All thin-film, hard-coated construction for unsurpassed performance and reliability.

Part Number	Size	Price[1]	Stock Status
FF01-494/20-25	25 mm x 5.0 mm	$405	In Stock
FF01-494/20-25-STR	25 mm threaded ring for Sutter Lambda filter wheel	$425	2nd Day Ship
FF01-494/20-32	32 mm x 5.0 mm	$664	2nd Day Ship
FF01-494/20-21.8-D	21.8 mm x 2.0 mm (unmounted)	$405	2nd Day Ship

Don't see a size you need? Contact us for custom sizing – delivery confirmed ARO (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% 484 – 504 nm
Center Wavelength 1	494 nm
Guaranteed Minimum Bandwidth 1	20 nm
FWHM Bandwidth 1 (nominal)	25.2 nm
Blocking Band 1	OD_{avg} > 6 300 – 375 nm
Blocking Band 2	OD_{avg} > 10 375 – 468 nm (Design specification - measurements are noise-floor limited)
Blocking Band 3	OD_{avg} > 10 516 – 650 nm (Design specification - measurements are noise-floor limited)
Blocking Band 4	OD_{avg} > 5 650 – 700 nm
Blocking Band 5	OD_{avg} > 2.5 700 – 925 nm
Blocking Band 6	OD_{avg} > 2 925 – 1150 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.
Filter Effective Index	1.89 Understanding 'Effective Index of Refraction' n_{eff}

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