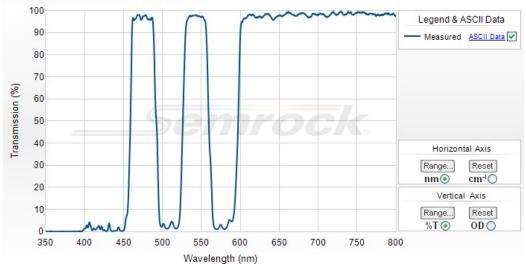
459/526/596 nm BrightLine® triple-edge dichroic beamsplitter

Part Number: FF459/526/596-Di01-25x36





Semrock, Inc.

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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.



459/526/596 nm BrightLine® triple-edge dichroic beamsplitter

Multi-edge dichroics have two or more transitions from high reflectance to high transmission. These polarization-insensitive dichroic beamsplitters for 45° angle-of-incidence exhibit steep edges with very high and flat reflection and transmission bands. More complete reflection and transmission mean less stray light for lower background and improved signal-to-noise ratio. These filters are optimized for fluorescence microscopes and instrumentation, and may also be used for a variety of other applications that require beam combining and separation based on wavelength. They are based on Semrock's highly reliable hard-coating technology on ultralow-autofluorescence fused-silica substrates.

Part Number	Size	Price1	Stock Status
FF459/526/596-Di01-25x36	25.2 mm x 35.6 mm x 1.1 mm (unmounted)	\$435	In Stock
FF459/526/596-Di01-22x29	22.0 mm x 29.0 mm x 1.1 mm (unmounted)	\$435	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
Reflection Band 1	Ravg > 95% 350 – 450 nm
Edge Wavelength 1	459 nm
Transmission Band 1	Tavg > 93% 464 – 486 nm
Reflection Band 2	Ravg > 95% 497.6 – 519.5 nm
Edge Wavelength 2	526 nm
Transmission Band 2	Tavg > 93% 532 - 554 nm
Reflection Band 3	Ravg > 95% 567.4 – 588.6 nm
Edge Wavelength 3	596 nm
Transmission Band 3	Tavg > 93% 603 - 800 nm

General Filter Specifications

Specification	Value
Angle of Incidence	45 ± 1.5 degrees
Cone Half-angle	2 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/cm²) for over 500 hrs.
Flatness	Standard
Steepness	Standard
Effective Index	1.65

Physical Filter Specifications (applies to standard sized parts; contact us regarding other sizes)

Control of the Contro	
Specification	Value
Specification	value

Transverse Dimensions (L x VV)	25.2 mm x 35.6 mm
Transverse Tolerance	± 0.1 mm
Filter Thickness (unmounted)	1.05 mm
Filter Thickness Tolerance (unmounted)	± 0.05 mm
Clear Aperture	≥ 80% (elliptical)
Scratch-Dig	60-40
Substrate Thickness (unmounted)	1.05 mm
Substrate Thickness Tolerance (unmounted)	± 0.05 mm
Orientation	Reflective surface marked with part number - Orient in direction of incoming light