

488/561 nm lasers BrightLine® dual-edge laser-flat dichroic beamsplitter

Part Number: Di01-R488/561-25x36



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.



488/561 nm lasers BrightLine® dual-edge laser-flat dichroic beamsplitter

Optimized beamsplitters for the most popular lasers used in fluorescence imaging, including newer all-solid-state lasers. All beamsplitters in this category have exceptional reflectance at the laser wavelengths, improved ("laser-grade") flatness, and anti-reflection (AR) coatings to minimize imaging artifacts resulting from the coherent laser light.

Part Number	Size	Price ¹	Stock Status
Di01-R488/561-25x36	25.2 mm x 35.6 mm x 1.1 mm (unmounted)	\$455	In Stock
Di01-R488/561-22x29	22.0 mm x 29.0 mm x 1.1 mm (unmounted)	\$455	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	R _{abs} > 94% 471 – 491 nm
Reflection Band 1 (p-pol)	R _{abs} > 90% 471 – 491 nm
Reflection Band 1 (s-pol)	R _{abs} > 98% 471 – 491 nm
Edge Wavelength 1	500 nm
Transmission Band 1	T _{avg} > 93% 503.3 – 543 nm
Reflection Band 2	R _{abs} > 94% 559 – 568.2 nm
Reflection Band 2 (p-pol)	R _{abs} > 90% 559 – 568.2 nm
Reflection Band 2 (s-pol)	R _{abs} > 98% 559 – 568.2 nm
Edge Wavelength 2	575.5 nm
Transmission Band 2	T _{avg} > 93% 582.4 – 800 nm
Laser Wavelengths 1	473 +/- 2 nm, 488 +/- 2 nm
Laser Wavelengths 2	559 +/- 0 nm, 561.4 nm, 568.2 nm

General Filter Specifications

Specification	Value
Angle of Incidence	45 degrees with a shift of 0.35%/degree (40 – 50 degrees)
Cone Half-angle	0.5 degrees
Optical Damage Rating	2 J/cm ² at 532 nm (for a 532nm filter)
Flatness	Laser Flat
Steepness	Steep
Effective Index	1.68

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

Specification	Value
Transverse Dimensions (L x W)	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 Type	Fused Silica
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