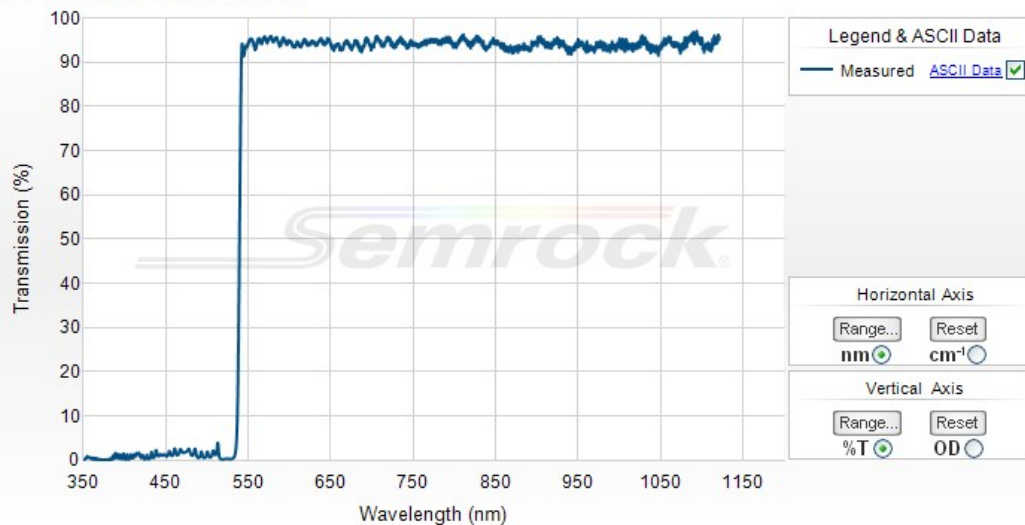


## 532 nm Laser BrightLine® single-edge laser-flat dichroic beamsplitter

Part Number: Di02-R532-25x36



### 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.



### 532 nm Laser BrightLine® single-edge laser-flat dichroic beamsplitter

The perfect 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.

Interested in an improved flatness version?

1λ P-V RWE on 1mm [Di03-R532-t1](#) now available

λ/5 P-V RWE on 3mm [Di03-R532-t3](#) now available

| Part Number     | Size                                   | Price <sup>1</sup> | Stock Status |
|-----------------|--|--------------------|--------------|
| Di02-R532-25x36 | 25.2 mm x 35.6 mm x 1.1 mm (unmounted) | \$405              | 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                                  |
|---------------------------|--|
| Reflection Band 1         | R <sub>abs</sub> > 94% 514 – 532 nm    |
| Reflection Band 1 (p-pol) | R <sub>abs</sub> > 90% 514 – 532 nm    |
| Reflection Band 1 (s-pol) | R <sub>abs</sub> > 98% 514 – 532 nm    |
| Reflection Band 2         | R <sub>avg</sub> > 90% 350 – 514 nm    |
| Edge Wavelength 1         | 536.8 nm                               |
| Transmission Band 1       | T <sub>avg</sub> > 93% 541.6 – 1200 nm |
| Laser Wavelengths 1       | 514.5 nm, 532 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 | 1 J/cm <sup>2</sup> @ 532 nm (10 ns pulse width)          |
| Flatness              | <a href="#">Laser Flat</a>                                |
| Steepness             | Steep   |
| Effective Index       | 1.86  |

### 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) |

|   |  |
|---|--|
| Clear Aperture                            | ≥ 99% (empirical)  |
| 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 |