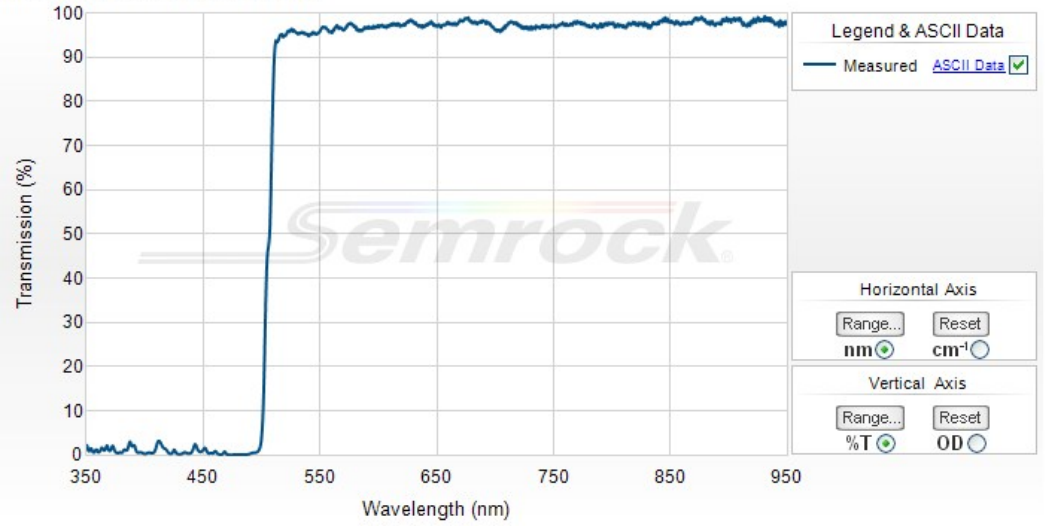
**506 nm edge BrightLine® single-edge standard epi-fluorescence dichroic beamsplitter**
**Part Number: FF506-Di03-25x36**

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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.

**506 nm edge BrightLine® single-edge standard epi-fluorescence dichroic beamsplitter**

Semrock offers a wide range of dichroic beamsplitters that exhibit steep edges with very high reflection and transmission bands. This standard epi-fluorescence dichroic beamsplitter is optimized only for broadband light sources such as LEDs and metal halide lamps.

| Part Number | Size | Price[1] | Stock Status |
|---|---|---|---|
| FF506-Di03-25x36 | 25.2 mm x 35.6 mm x 1.1 mm (unmounted) | $275 | In Stock |
| FF506-Di03-22x29 | 22.0 mm x 29.0 mm x 1.1 mm (unmounted) | $275 | In Stock |
| FF506-Di03-32x44-FX | 32 x 44 x 1.1 mm (corners cut for OFX cube) (unmounted) | $432 | In Stock |

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 |
|---|---|
| Reflection Band 1 | $R_{avg}$ > 98% 350 – 500 nm |
| Reflection Band 2 | $R_{avg}$ > 98% 446 – 500 nm |
| Edge Wavelength 1 | 506 nm |
| Transmission Band 1 | $T_{avg}$ > 93% 513 – 950 nm |
| Transmission Band 2 | $T_{avg}$ > 93% 513 – 725 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. |
| Steepness | Standard |
| Filter Effective Index | 1.78 Understanding 'Effective Index of Refraction' $n_{eff}$ |
| Flatness / RWE Classification | Standard Epi-fluorescence |
| Reflected Wavefront Error | >> 6λ P-V RWE @ 632.8 nm |

### 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 |

| | |
|---|---|
| Transverse Tolerance | ± 0.1 mm |
| Filter Thickness (unmounted) | 1.05 mm |
| Filter Thickness Tolerance (unmounted) | ± 0.05 mm |
| Clear Aperture | ≥ 80% |
| 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 |