

740 nm edge BrightLine® single-edge standard epi-fluorescence dichroic beamsplitter

Part Number: FF740-Di01-25x36



Semrock, Inc

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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.



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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 |
|------------------|---|--------------------|--------------|
| FF740-Di01-25x36 | 25.2 mm x 35.6 mm x 1.1 mm (unmounted) | \$335 | 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 |
|---------------------|-------------------------|
| Reflection Band 1 | Ravg > 98% 480 – 720 nm |
| Edge Wavelength 1 | 740 nm |
| Transmission Band 1 | Tavg > 90% 750 – 825 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/cm ²) for over 500 hrs. |
| Flatness | Standard |
| Steepness | Standard |
| Filter Effective Index | 1.62 Understanding 'Effective Index of Refraction' <i>n_{eff}</i> |
| 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 |
| 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 |