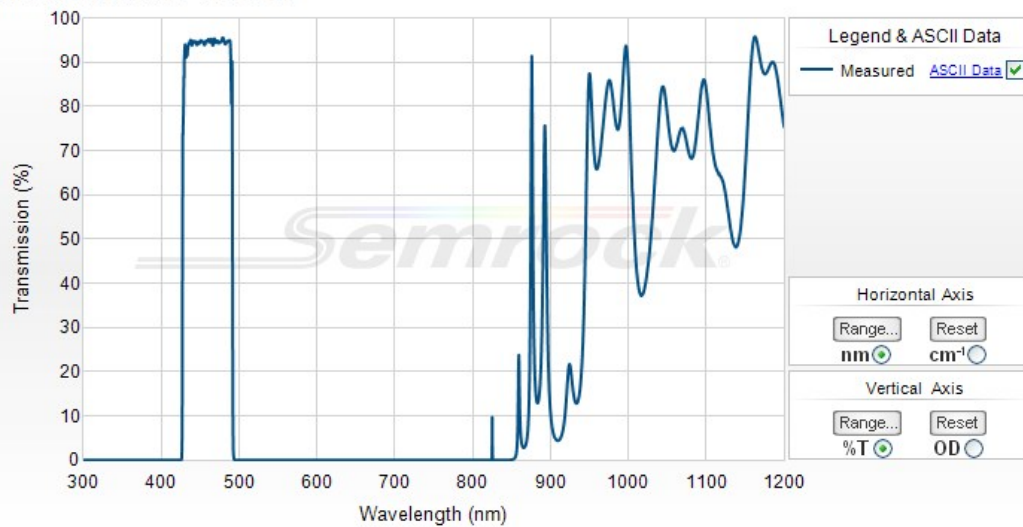


## 460/60 nm BrightLine® single-band bandpass filter

Part Number: FF01-460/60-25



### Semrock, Inc

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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.



### 460/60 nm BrightLine® single-band bandpass filter

Individual fluorescence bandpass filters that have been optimized for use in a variety of fluorescence instruments. All thin-film, hard-coated construction for unsurpassed performance and reliability.

| Part Number        | Size                            | Price <sup>1</sup> | Stock Status |
|--------------------|---------------------------------|--------------------|--------------|
| FF01-460/60-25     | 25 mm x 3.5 mm                  | \$265              | In Stock     |
| FF01-460/60-23.3-D | 23.3 mm x 2.0 mm<br>(unmounted) | \$265              | 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                    |
|--------------------------------|--------------------------|
| Transmission Band 1            | Tavg > 90% 430 – 490 nm  |
| Center Wavelength 1            | 460 nm                   |
| Guaranteed Minimum Bandwidth 1 | 60 nm                    |
| FWHM Bandwidth 1 (nominal)     | 64.2 nm                  |
| Blocking Band 1                | ODavg > 5 200 – 418 nm   |
| Blocking Band 2                | ODavg > 3.3 418 – 423 nm |
| Blocking Band 3                | ODavg > 3.3 513 – 518 nm |
| Blocking Band 4                | ODavg > 5 518 – 800 nm   |

### General Filter Specifications

| Specification         | Value  |
|-----------------------|--|
| Angle of Incidence    | 0 ± 5 degrees  |
| Cone Half-angle       | 7 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 <sup>2</sup> ) for over 500 hrs. |
| Effective Index       | 2.06   |

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

| Specification                        | Value            |
|--------------------------------------|------------------|
| Transverse Dimensions (Diameter)     | 25 mm            |
| Transverse Tolerance (mounted)       | + 0.0 / - 0.1 mm |
| Filter Thickness (Mounted)           | 3.5 mm           |
| Filter Thickness Tolerance (Mounted) | ± 0.1 mm         |

|   |   |
|---|---|
| Clear Aperture                            | $\geq 22$ mm  |
| Scratch-Dig                               | 60-40   |
| Substrate Thickness (unmounted)           | 2.0 mm  |
| Substrate Thickness Tolerance (unmounted) | $\pm 0.1$ mm  |
| Orientation                               | Arrow on ring indicates preferred direction of propagation of light |