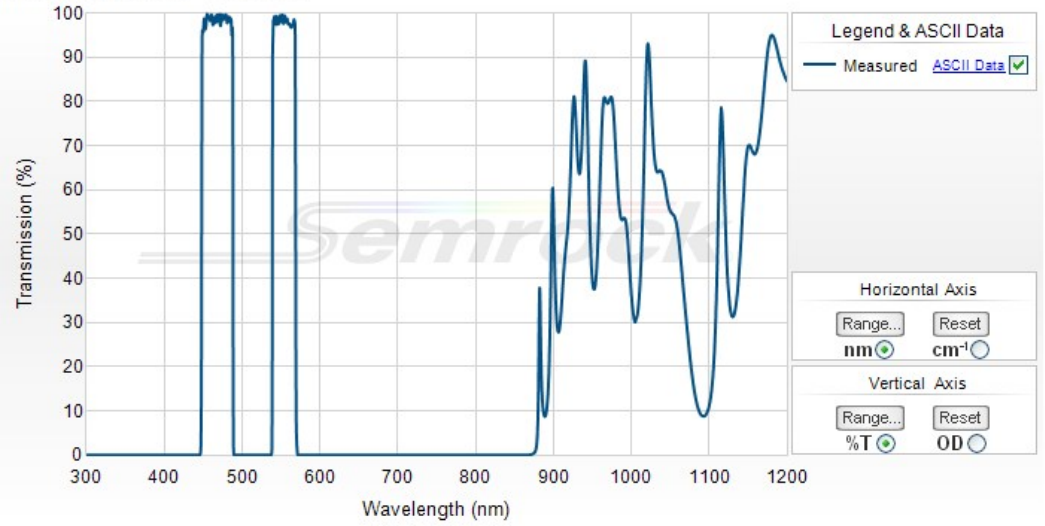
**468/553 nm BrightLine® dual-band bandpass filter**
**Part Number: FF01-468/553-25**




**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.

**468/553 nm BrightLine® dual-band bandpass filter**

Individual multiband fluorescence bandpass filters that utilize Semrock's patented single-substrate construction. These filters have extremely high transmission, steep and well-defined edges, and outstanding blocking between the passbands. All thin-film, hard-coated construction for unsurpassed performance and reliability.

| Part Number | Size | Price[1] | Stock Status |
|---|---|---|---|
| FF01-468/553-25 | 25 mm x 5.0 mm | $395 | In Stock |
| FF01-468/553-21.8-D | 21.8 mm x 3.5 mm (unmounted) | $395 | 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 | $T_{avg}$ > 90% 451 – 485 nm |
| Center Wavelength 1 | 468 nm |
| Guaranteed Minimum Bandwidth 1 | 34 nm |
| FWHM Bandwidth 1 (nominal) | 40 nm |
| Transmission Band 2 | $T_{avg}$ > 90% 541 – 565 nm |
| Center Wavelength 2 | 553 nm |
| Guaranteed Minimum Bandwidth 2 | 24 nm |
| FWHM Bandwidth 2 (nominal) | 30.3 nm |
| Blocking Band 1 | $OD_{avg}$ > 6 275 – 440 nm |
| Blocking Band 2 | $OD_{avg}$ > 6 495 – 530 nm |
| Blocking Band 3 | $OD_{avg}$ > 6 577 – 700 nm |
| Blocking Band 4 | $OD_{avg}$ > 4 700 – 850 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$^2$) for over 500 hrs. |
| Effective Index | 1.93 |

**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) | 5.0 mm |
| Filter Thickness Tolerance (Mounted) | ± 0.1 mm |
| Clear Aperture | ≥ 21 mm |
| Scratch-Dig | 60-40 |
| Substrate Thickness (unmounted) | 3.5 mm |
| Substrate Thickness Tolerance (unmounted) | ± 0.1 mm |
| Orientation | Arrow on ring indicates preferred direction of propagation of light |