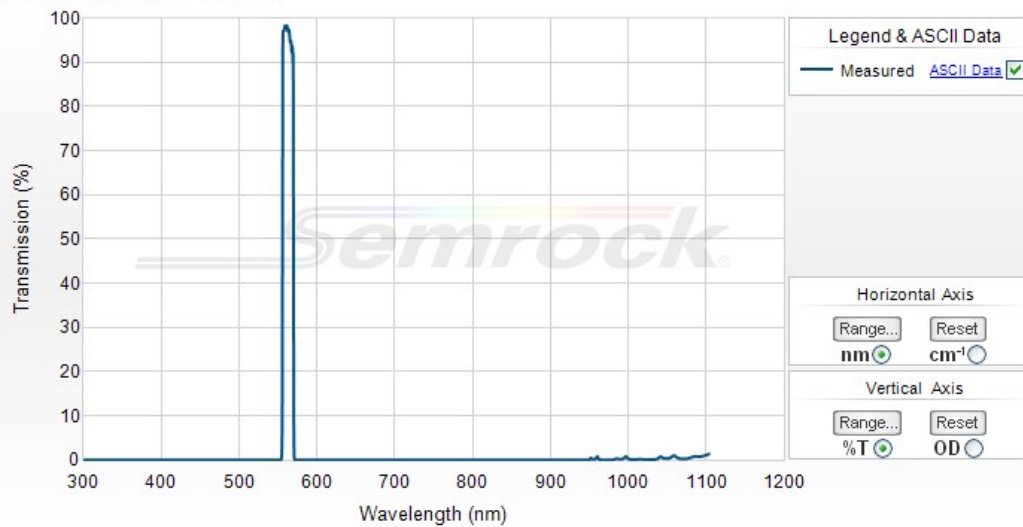


## 563/9 nm BrightLine® single-band bandpass filter

Part Number: FF01-563/9-25



### 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.



### 563/9 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 |
|-------------------|--|--------------------|--------------|
| FF01-563/9-25     | 25 mm x 5.0 mm                                     | \$305              | In Stock     |
| FF01-563/9-25-STR | 25 mm threaded ring for Sutter Lambda filter wheel | \$325              | 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 <sub>avg</sub> > 93% 558.5 – 567.5 nm   |
| Center Wavelength 1            | 563 nm  |
| Guaranteed Minimum Bandwidth 1 | 9 nm  |
| FWHM Bandwidth 1 (nominal)     | 14.5 nm   |
| Blocking Band 1                | OD <sub>avg</sub> > 5 200 – 546.2 nm  |
| Blocking Band 2                | OD > 3.5 551.8 nm   |
| Blocking Band 3                | OD > 3.5 575 nm   |
| Blocking Band 4                | OD <sub>avg</sub> > 8 582 – 636 nm (Design specification - <a href="#">measurements are noise-floor limited</a> ) |
| Blocking Band 5                | OD <sub>avg</sub> > 5 636 – 700 nm  |
| Blocking Band 6                | OD <sub>avg</sub> > 4 700 – 925 nm  |
| Blocking Band 7                | OD <sub>avg</sub> > 2 925 – 1100 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       | 1.79   |

### 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)      | $\pm 0.1$ mm  |
| Clear Aperture                            | $\geq 21$ 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 |