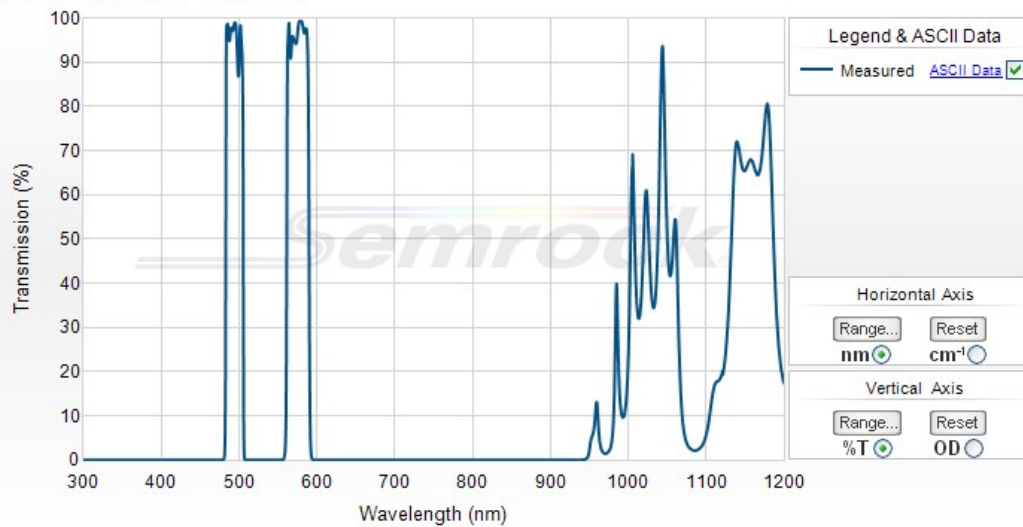


## 494/576 nm BrightLine® dual-band bandpass filter

Part Number: FF01-494/576-25



### 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.



### 494/576 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 <sup>1</sup> | Stock Status |
|---------------------|---------------------------------|--------------------|--------------|
| FF01-494/576-25     | 25 mm x 5.0 mm                  | \$395              | In Stock     |
| FF01-494/576-32     | 32 mm x 5.0 mm                  | \$647              | 2nd Day Ship |
| FF01-494/576-21.8-D | 21.8 mm x 2.0 mm<br>(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).

<sup>1</sup> 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> > 90% 484 – 504 nm   |
| Center Wavelength 1            | 494 nm  |
| Guaranteed Minimum Bandwidth 1 | 20 nm   |
| FWHM Bandwidth 1 (nominal)     | 25.1 nm   |
| Transmission Band 2            | T <sub>avg</sub> > 90% 566 – 586 nm   |
| Center Wavelength 2            | 576 nm  |
| Guaranteed Minimum Bandwidth 2 | 20 nm   |
| FWHM Bandwidth 2 (nominal)     | 27.2 nm   |
| Blocking Band 1                | OD <sub>avg</sub> > 6 275 – 400 nm  |
| Blocking Band 2                | OD <sub>avg</sub> > 6 400 – 414 nm  |
| Blocking Band 3                | OD <sub>avg</sub> > 8 446 – 467 nm (Design specification - <a href="#">measurements are noise-floor limited</a> ) |
| Blocking Band 4                | OD <sub>avg</sub> > 8 520 – 540 nm (Design specification - <a href="#">measurements are noise-floor limited</a> ) |
| Blocking Band 5                | OD <sub>avg</sub> > 8 614 – 642 nm (Design specification - <a href="#">measurements are noise-floor limited</a> ) |
| Blocking Band 6                | OD <sub>avg</sub> > 4 655 – 925 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       | 1.87   |

**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)           | 2.0 mm  |
| Substrate Thickness Tolerance (unmounted) | ± 0.1 mm  |
| Orientation                               | Arrow on ring indicates preferred direction of propagation of light |