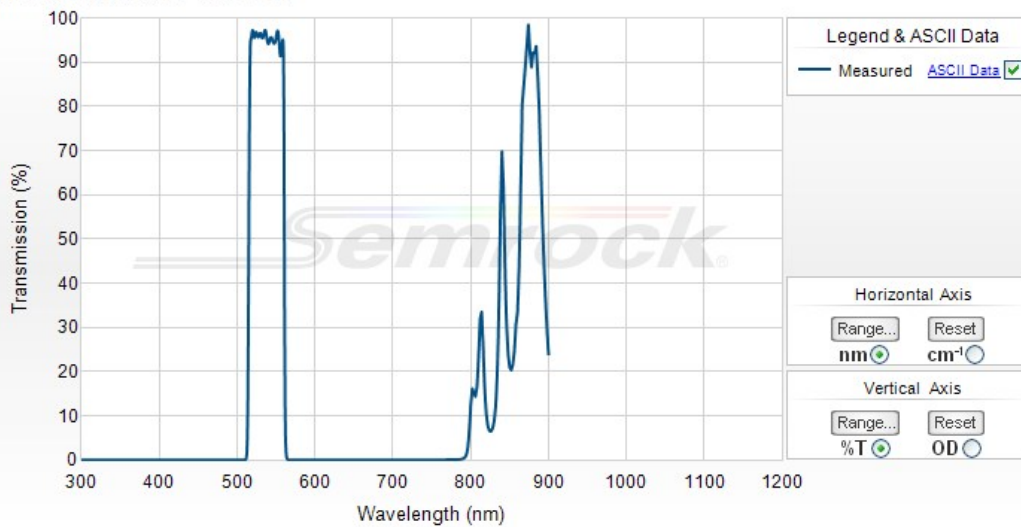


## 538/40 nm BrightLine® single-band bandpass filter

Part Number: FF01-538/40-25



### 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.



### 538/40 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 |
|--------------------|---------------------------------|--------------------|--------------|
| FF01-538/40-25     | 25 mm x 3.5 mm                  | \$305              | In Stock     |
| FF01-538/40-32     | 32 mm x 3.5 mm                  | \$500              | 2nd Day Ship |
| FF01-538/40-23.3-D | 23.3 mm x 2.0 mm<br>(unmounted) | \$305              | 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            | Tavg > 90% 518 – 558 nm                                    |
| Center Wavelength 1            | 538 nm   |
| Guaranteed Minimum Bandwidth 1 | 40 nm  |
| FWHM Bandwidth 1 (nominal)     | 45.2 nm  |
| Blocking Band 1                | Nominal blocking data is represented by the ASCII spectrum |

### 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)           | 3.5 mm           |
| Filter Thickness Tolerance (Mounted) | ± 0.1 mm         |
| Clear Aperture                       | ≥ 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 |