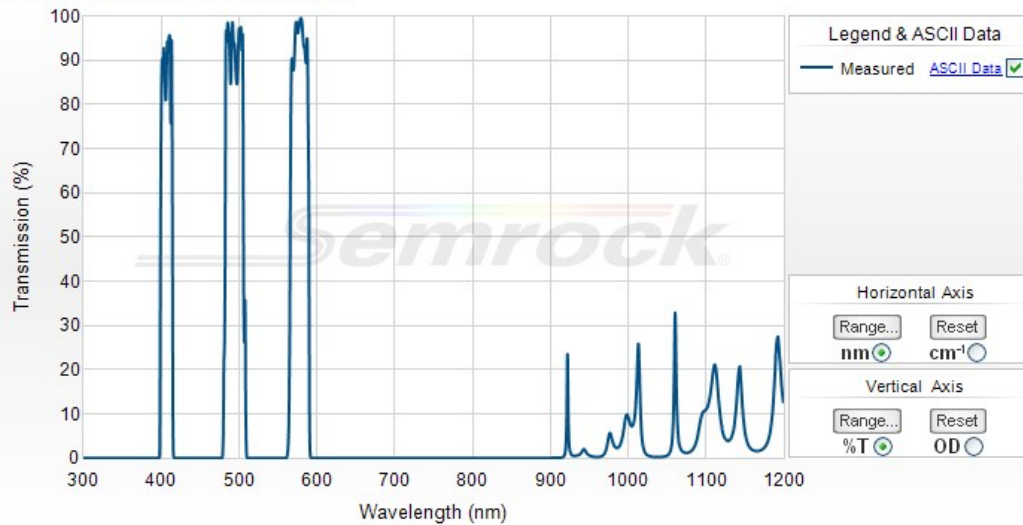


407/494/576 nm BrightLine® triple-band bandpass filter

Part Number: FF01-407/494/576-25



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.



407/494/576 nm BrightLine® triple-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 |
|-------------------------|---------------------------------|--------------------|--------------|
| FF01-407/494/576-25 | 25 mm x 5.0 mm | \$435 | In Stock |
| FF01-407/494/576-32 | 32 mm x 5.0 mm | \$713 | 2nd Day Ship |
| FF01-407/494/576-21.8-D | 21.8 mm x 2.0 mm (unmounted) | \$435 | 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} > 80% 400 – 414 nm |
| Center Wavelength 1 | 407 nm |
| Guaranteed Minimum Bandwidth 1 | 14 nm |
| FWHM Bandwidth 1 (nominal) | 18 nm |
| Transmission Band 2 | T _{avg} > 85% 484 – 504 nm |
| Center Wavelength 2 | 494 nm |
| Guaranteed Minimum Bandwidth 2 | 20 nm |
| FWHM Bandwidth 2 (nominal) | 24 nm |
| Transmission Band 3 | T _{avg} > 85% 566 – 586 nm |
| Center Wavelength 3 | 576 nm |
| Guaranteed Minimum Bandwidth 3 | 20 nm |
| FWHM Bandwidth 3 (nominal) | 25 nm |
| Blocking Band 1 | OD _{avg} > 6 300 – 388 nm |
| Blocking Band 2 | OD _{avg} > 6 424 – 472 nm |
| Blocking Band 3 | OD _{avg} > 6 517 – 549 nm |
| Blocking Band 4 | OD _{avg} > 6 602 – 725 nm |
| Blocking Band 5 | OD _{avg} > 6 725 – 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 | 2.05 |

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 |