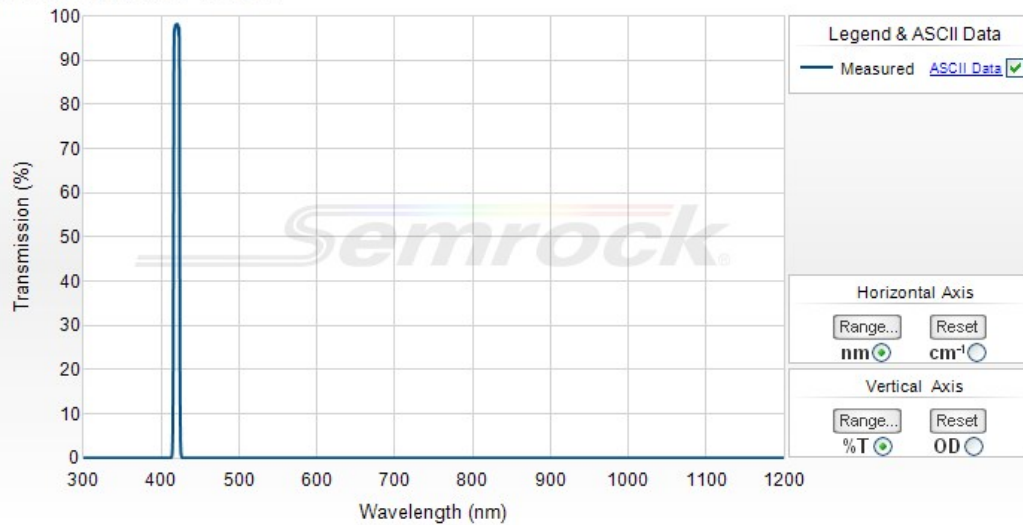


420/5 nm BrightLine® single-band bandpass filter

Part Number: FF01-420/5-25



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.



420/5 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 ¹ | Stock Status |
|---------------|----------------|--------------------|--------------|
| FF01-420/5-25 | 25 mm x 5.0 mm | \$405 | In Stock |

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% 417.5 – 422.5 nm |
| Center Wavelength 1 | 420 nm |
| GMBW 1 | 5 nm |
| FWHM 1 (nominal) | 8.2 nm |
| Blocking Band 1 | OD _{avg} > 5 300 – 404 nm |
| Blocking Band 2 | OD _{avg} > 2 404 – 412 nm |
| Blocking Band 3 | OD _{avg} > 2 428 – 436 nm |
| Blocking Band 4 | OD _{avg} > 5 436 – 1200 nm |

General Filter Specifications

| Specification | Value |
|-----------------------|--|
| Effective Index | 2.38 |
| 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. |

Physical Filter Specifications (applies to standard sized parts; contact us regarding other sizes)

| Specification | Value |
|--------------------------------------|------------------|
| Transverse Dimensions (Diameter) | 25 mm |
| Transverse Tolerance | + 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 |