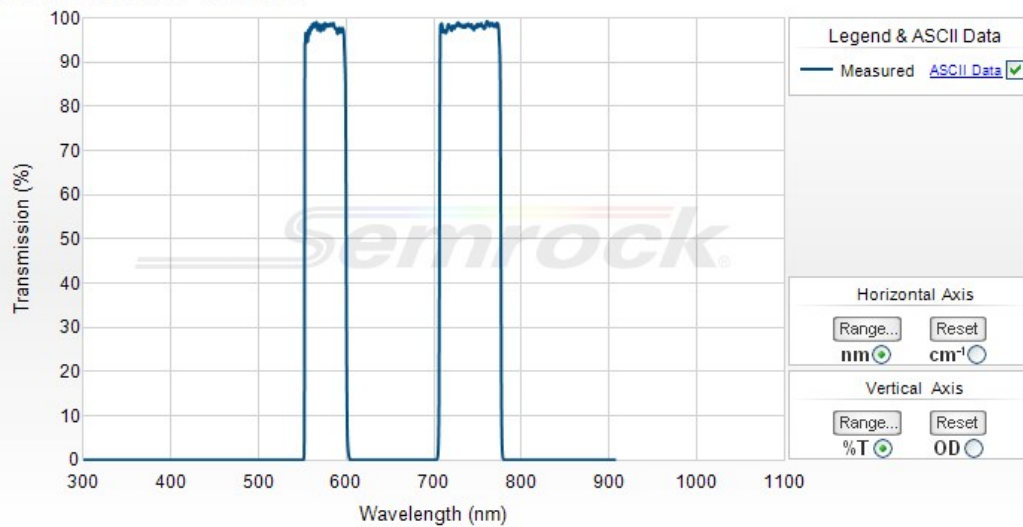


## 577/742 nm BrightLine® dual-band bandpass filter

Part Number: FF01-577/742-25



### 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.



### 577/742 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
FF01-577/742-25	25 mm x 3.5 mm	\$395	In Stock

This part is not available for custom sizing.

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> > 90% 555.5 – 598.5 nm
Center Wavelength 1	577 nm
Guaranteed Minimum Bandwidth 1	43 nm
FWHM Bandwidth 1 (nominal)	48.3 nm
Transmission Band 2	T <sub>avg</sub> > 90% 711 – 773 nm
Center Wavelength 2	742 nm
Guaranteed Minimum Bandwidth 2	62 nm
FWHM Bandwidth 2 (nominal)	69.8 nm
Blocking Band 1	OD <sub>avg</sub> > 6 200 – 540 nm
Blocking Band 2	OD <sub>avg</sub> > 6 614.5 – 694 nm
Blocking Band 3	OD <sub>avg</sub> > 6 790.5 – 900 nm
Blocking Band 4	

### 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	1.95

### 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)	$\pm 0.1$ mm
Clear Aperture	$\geq 22$ mm
Scratch-Dig	60-40
Substrate Thickness (unmounted)	1.05 mm
Substrate Thickness Tolerance (unmounted)	$\pm 0.05$ mm
Orientation	Arrow on ring indicates preferred direction of propagation of light