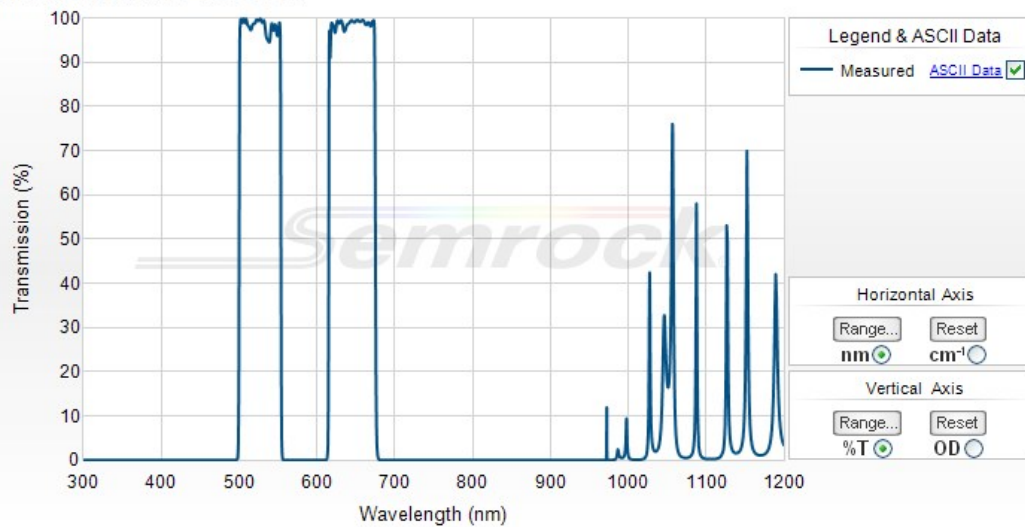


**527/645 nm BrightLine® dual-band bandpass filter**

**Part Number: FF01-527/645-25**



**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.



**527/645 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
FF01-527/645-25	25 mm x 3.5 mm	\$395	In Stock
FF01-527/645-23.3-D	23.3 mm x 2.0 mm (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).

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	Tavg > 90% 506 – 548 nm
Center Wavelength 1	527 nm
Guaranteed Minimum Bandwidth 1	42 nm
FWHM Bandwidth 1 (nominal)	54.1 nm
Transmission Band 2	Tavg > 90% 620.5 – 669.5 nm
Center Wavelength 2	645 nm
Guaranteed Minimum Bandwidth 2	49 nm
FWHM Bandwidth 2 (nominal)	61 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	1.85

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