

## 647 nm EdgeBasic™ best-value long-pass edge filter

Part Number: BLP01-647R-25



### Semrock, Inc

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(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.



### 647 nm EdgeBasic™ best-value long-pass edge filter

EdgeBasic filters offer an ideal combination of performance and value for applications including Raman spectroscopy and fluorescence imaging and measurements. They offer exceptional laser-line blocking and high transmission for Raman applications that do not require measuring the smallest possible Raman shifts and when cost is an issue.

Part Number	Size	Price <sup>1</sup>	Stock Status
BLP01-647R-25	25 mm x 3.5 mm	\$355	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 <sub>avg</sub> > 93% 665.2 – 1200 nm
Edge Wavelength 1	659.5 nm
Blocking Band 1	OD <sub>avg</sub> > 5 270 – 517.7 nm
Blocking Band 2	OD <sub>abs</sub> > 6 517.7 – 647.1 nm
Transition Width (nm)	16.2 nm
Transition Width (cm <sup>-1</sup> )	377 cm <sup>-1</sup>

### General Filter Specifications

Specification	Value
Laser Wavelength 1	647.1 nm
Laser Wavelength 1 (low)	647.1 nm
Laser Wavelength 1 (high)	647.1 nm
Angle of Incidence	0 ± 2 degrees
Cone Half-angle	5 degrees
Optical Damage Rating	Not tested
Effective Index	1.81

### 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

Scratch-Dig	00-40
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