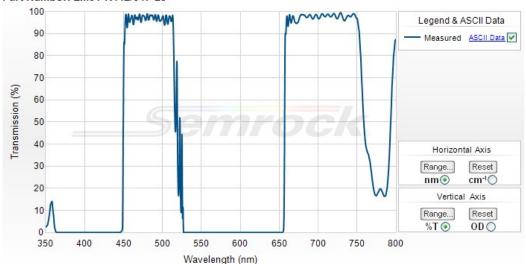
442/647 nm Yokogawa emission filter

Part Number: Em01-R442/647-25





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.



442/647 nm Yokogawa emission filter

Combining superior performance with exceptional durability, these filters are specifically optimized for use with all Yokogawa CSU spinning-disk scan head system configurations.

Part Number	Size	Price1	Stock Status
Em01-R442/647-25	25 mm x 3.5 mm	\$405	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	Tavg > 90% 458 – 512 nm
Center Wavelength 1	485 nm
Guaranteed Minimum Bandwidth 1	54 nm
FWHM Bandwidth 1 (nominal)	74.7 nm
Transmission Band 2	Tavg > 90% 663 – 750 nm
Center Wavelength 2	706.5 nm
Guaranteed Minimum Bandwidth 2	87 nm
FWHM Bandwidth 2 (nominal)	109.0 nm (+100 nm of varying transmission)
Blocking Band 1	ODabs > 6 405 nm
Blocking Band 2	ODabs > 6 442 nm
Blocking Band 3	ODabs > 6 561 - 568 nm
Blocking Band 4	ODabs > 6 638 - 647 nm

General Filter Specifications

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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/cm²) for over 500 hrs.	
Effective Index	1.83	

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

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Filter Thickness (Mounted)	3.5 mm	
Filter Thickness Tolerance (Mounted)	± 0.1 mm	
Clear Aperture	≥ 22 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	