

# Continuously Variable Short Wave Pass filter for the range 395 nm to 815 nm

## CVSWP 395-815 (LF104557)

Continuously variable short-wavelength-pass filter with  $\lambda_{50\%}$  travelling from  $\leq 395$  nm to  $\geq 815$  nm within  $\leq 84$  mm

### Near-edge average transmittance

$T_{avg}$	$\lambda_{50\%}$	Interval start	Interval end
$\geq 83\%$	395 nm – 430 nm	$0.95 * \lambda_{50\%}$	$0.99 * \lambda_{50\%}$
$\geq 88\%$	430 nm – 520 nm	$0.95 * \lambda_{50\%}$	$0.99 * \lambda_{50\%}$
$\geq 90\%$	520 nm – 815 nm	$0.95 * \lambda_{50\%}$	$0.99 * \lambda_{50\%}$

### Broad-band average transmittance

$T_{avg}$	$\lambda_{50\%}$	Interval start	Interval end
$\geq 85\%$	395 nm – 430 nm	$0.49 * \lambda_{50\%} + 147$ nm	$0.98 * \lambda_{50\%}$
$\geq 87\%$	430 nm – 520 nm	$\lambda_{50\%} - 120$ nm	$0.98 * \lambda_{50\%}$
$\geq 90\%$	520 nm – 815 nm	$\lambda_{50\%} - 120$ nm	$0.98 * \lambda_{50\%}$

### Broad-band minimum transmittance

$T_{min}$	$\lambda_{50\%}$	Interval start	Interval end
$\geq 80\%$	395 nm – 430 nm	$0.49 * \lambda_{50\%} + 147$ nm	$0.98 * \lambda_{50\%}$
$\geq 85\%$	430 nm – 520 nm	$\lambda_{50\%} - 120$ nm	$0.98 * \lambda_{50\%}$
$\geq 87\%$	520 nm – 640 nm	$\lambda_{50\%} - 120$ nm	$0.98 * \lambda_{50\%}$
$\geq 88\%$	640 nm – 815 nm	$\lambda_{50\%} - 120$ nm	$0.98 * \lambda_{50\%}$

### Extended, broad-band average transmittance

$T_{avg}$	$\lambda_{50\%}$	Interval start	Interval end
$\geq 85\%$	520 nm – 640 nm	$0.49 * \lambda_{50\%} + 147$ nm	$\lambda_{50\%} - 120$ nm
$\geq 85\%$	640 nm – 815 nm	$0.29 * \lambda_{50\%} + 278$ nm	$\lambda_{50\%} - 120$ nm

### Extended, broad-band average transmittance

$T_{min}$	$\lambda_{50\%}$	Interval start	Interval end
$\geq 80\%$	520 nm – 640 nm	$0.49 * \lambda_{50\%} + 147$ nm	$\lambda_{50\%} - 120$ nm
$\geq 80\%$	640 nm – 815 nm	$0.29 * \lambda_{50\%} + 278$ nm	$\lambda_{50\%} - 120$ nm

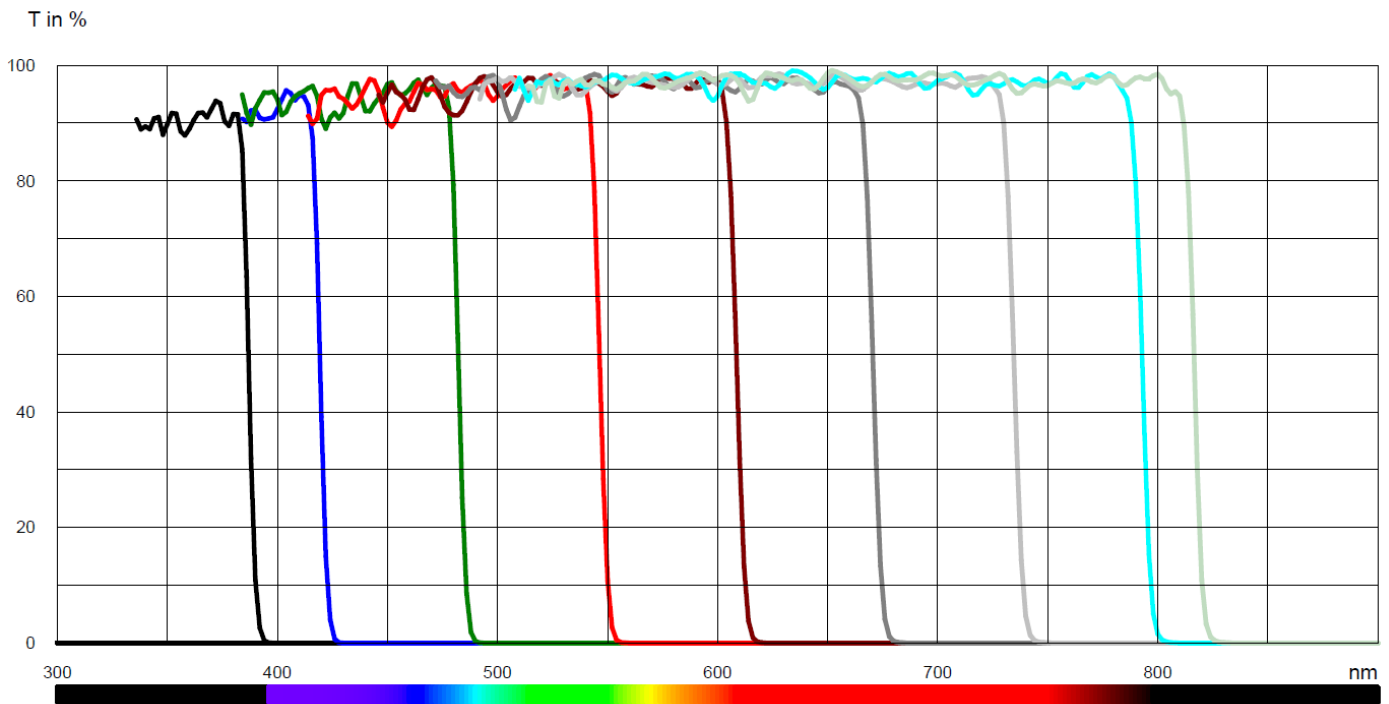
### Broad-band blocking (maximum transmittance)

$T_{max}$	$\lambda_{50\%}$	Interval start	Interval end
$\leq 0.2\%$	395 nm – 815 nm	$1.025 * \lambda_{50\%}$	$1.4 * \lambda_{50\%} + 220$ nm, or 900 nm (whichever is smaller)
$\leq 1\%$	395 nm – 815 nm	$1.02 * \lambda_{50\%}$	$1.45 * \lambda_{50\%} + 220$ nm, or 900 nm (whichever is smaller)
$\leq 10\%$	395 nm – 815 nm	$1.015 * \lambda_{50\%}$	$1.45 * \lambda_{50\%} + 220$ nm, or 900 nm (whichever is smaller)

### Broad-band blocking (average transmittance)

$T_{avg}$	$\lambda_{50\%}$	Interval start	Interval end
$\leq 0.02\%$	395 nm – 815 nm	$1.03 * \lambda_{50\%}$	$1.4 * \lambda_{50\%} + 220$ nm, or 900 nm (whichever is smaller)

### Typically measured transmittance of CVSWP 395-815 (LF104557)



### Typically measured blocking of CVSWP 395-815 (LF104557)

