

## Linear Variable Dichroic for the range 320 nm to 760 nm

This filter is a Continuous Variable Long Wave Pass filter with a nominal Angle of Incidence (AOI) of 45° that can be used as a beam splitter.

Detailed data for the filter is given below:

### LV Dichroic 320 -760 (LF102227)

Continuously Variable Long Wave Pass filter with  $\lambda_{50\%}$  travelling from  $\leq 320$  nm to  $\geq 760$  nm within  $\leq 58$  mm

OD2 blocking reached within  $0.035 * \lambda_{50\%}$

Small polarization split

#### Near-edge average transmittance

$T_{avg}$	$\lambda_{50\%}$	Interval start	Interval end
$\geq 85\%$	320 nm – 420 nm	$1.02 * \lambda_{50\%}$	$1.1 * \lambda_{50\%}$
$\geq 90\%$	420 nm – 760 nm	$1.02 * \lambda_{50\%}$	$1.1 * \lambda_{50\%}$

#### Broad-band minimum transmittance

$T_{min}$	$\lambda_{50\%}$	Interval start	Interval end
$\geq 81\%$	320 nm – 420 nm	$1.03 * \lambda_{50\%}$	$\lambda_{50\%} + 150$ nm or 870 nm (whichever is smallest)
$\geq 87\%$	420 nm – 760 nm	$1.03 * \lambda_{50\%}$	$\lambda_{50\%} + 150$ nm or 870 nm (whichever is smallest)

#### Broad-band blocking (maximum transmittance)

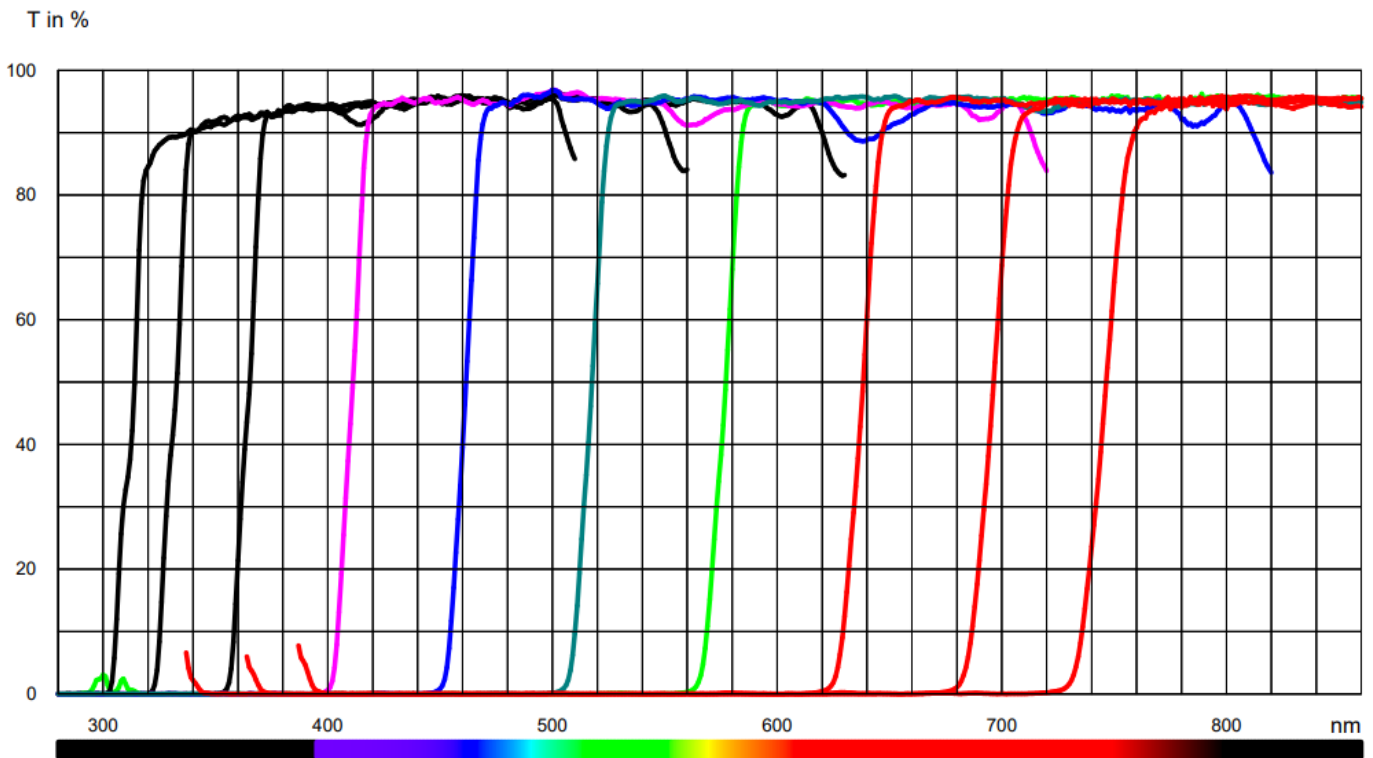
$T_{max}$	$\lambda_{50\%}$	Interval start	Interval end
$\leq 1\%$	320 nm – 760 nm	$0.553 * \lambda_{50\%}$	$0.963 * \lambda_{50\%}$

$T_{max}$	$\lambda_{50\%}$	Interval start	Interval end
$\leq 0.25\%$	320 nm – 420 nm	$0.56 * \lambda_{50\%}$	$0.96 * \lambda_{50\%}$
$\leq 0.65\%$	420 nm – 760 nm	$0.56 * \lambda_{50\%}$	$0.96 * \lambda_{50\%}$

#### Broad-band blocking (average transmittance)

$T_{avg}$	$\lambda_{50\%}$	Interval start	Interval end
$\leq 0.05\%$	320 nm – 420 nm	$0.56 * \lambda_{50\%}$	$0.96 * \lambda_{50\%}$
$\leq 0.1\%$	420 nm – 760 nm	$0.56 * \lambda_{50\%}$	$0.96 * \lambda_{50\%}$

### Typically measured transmittance of LV Dichroic 320 - 760 (LF102227)



### Typically measured blocking of LV Dichroic 320 - 760 (LF102227)

