Data Sheet

delta optical thin film

3G LVSWP (LF102474)

Third generation Linear Variable Short Wavelength Pass Filter

$\lambda_{50\%}$ travelling from ≤ 320 nm to ≥ 850 nm within ≤ 58 mm
OD2 blocking reached within 0.02 * $\lambda_{50\%}$
Deeper near-edge blocking, but lower UV transmittance than 2G LVSWP

Near-edge average transmittance

T_{avg}	$\lambda_{50\%}$	Interval start	Interval end
≥ 42%	320 nm – 370 nm	0.96 * $\lambda_{50\%}$	0.99 * $\lambda_{50\%}$
≥ 65%	370 nm – 430 nm	0.95 * $\lambda_{50\%}$	0.99 * $\lambda_{50\%}$
≥ 85%	430 nm – 520 nm	0.95 * $\lambda_{50\%}$	0.99 * $\lambda_{50\%}$
≥ 90%	520 nm – 850 nm	0.95 * $\lambda_{50\%}$	0.99 * $\lambda_{50\%}$

Broad-band minimum transmittance

T_{min}	$\lambda_{50\%}$	Interval start	Interval end
≥ 40%	320 nm – 330 nm	305 nm	0.98 * $\lambda_{50\%}$
≥ 60%	330 nm – 370 nm	0.94 * $\lambda_{50\%}$	0.98 * $\lambda_{50\%}$
≥ 70%	370 nm – 430 nm	0.88 * $\lambda_{50\%}$	0.98 * $\lambda_{50\%}$
≥ 80%	430 nm – 520 nm	0.83 * $\lambda_{50\%}$	0.98 * $\lambda_{50\%}$
≥ 87%	520 nm – 850 nm	$\lambda_{50\%}$ – 100 nm	0.98 * $\lambda_{50\%}$

Broad-band blocking (maximum transmittance)

T_{max}	$\lambda_{50\%}$	Interval start	Interval end
≤ 1%	320 nm – 850 nm	1.02 * $\lambda_{50\%}$	1.45 * $\lambda_{50\%}$ + 220 nm

T_{max}	$\lambda_{50\%}$	Interval start	Interval end
≤ 0.2%	320 nm – 850 nm	1.03 * $\lambda_{50\%}$	1.4 * $\lambda_{50\%}$ + 220 nm

Broad-band blocking (average transmittance)

T_{avg}	$\lambda_{50\%}$	Interval start	Interval end
≤ 0.02%	320 nm – 850 nm	1.03 * $\lambda_{50\%}$	1.4 * $\lambda_{50\%}$ + 220 nm

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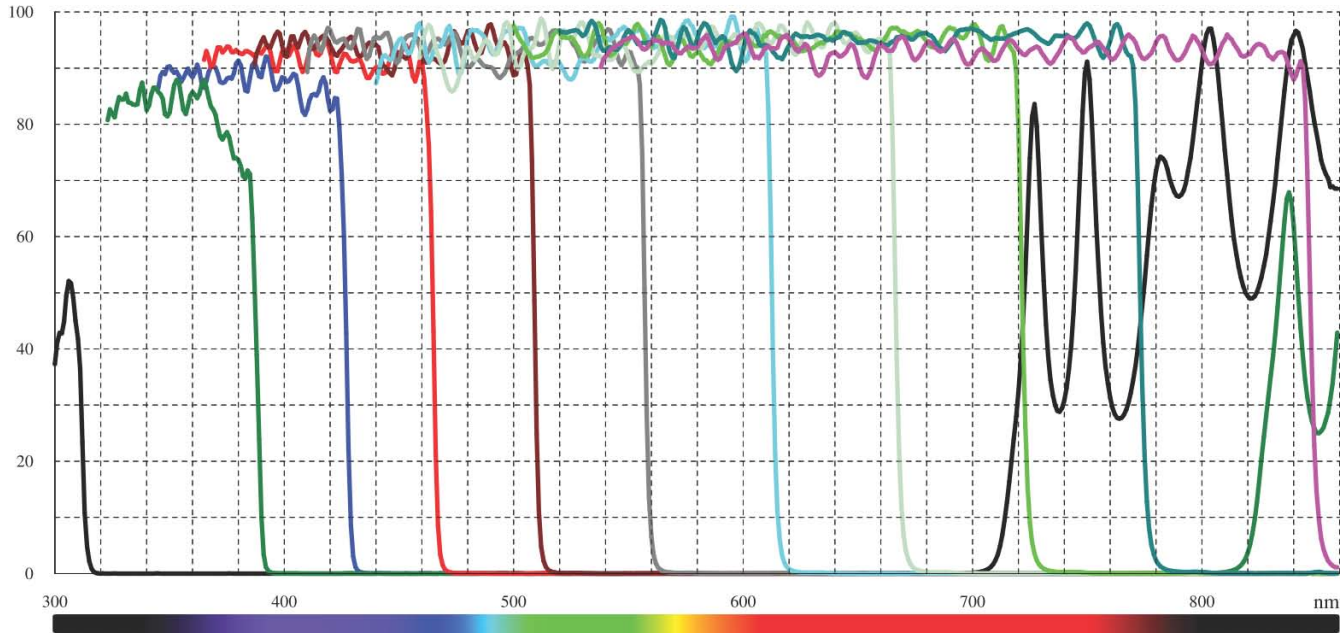
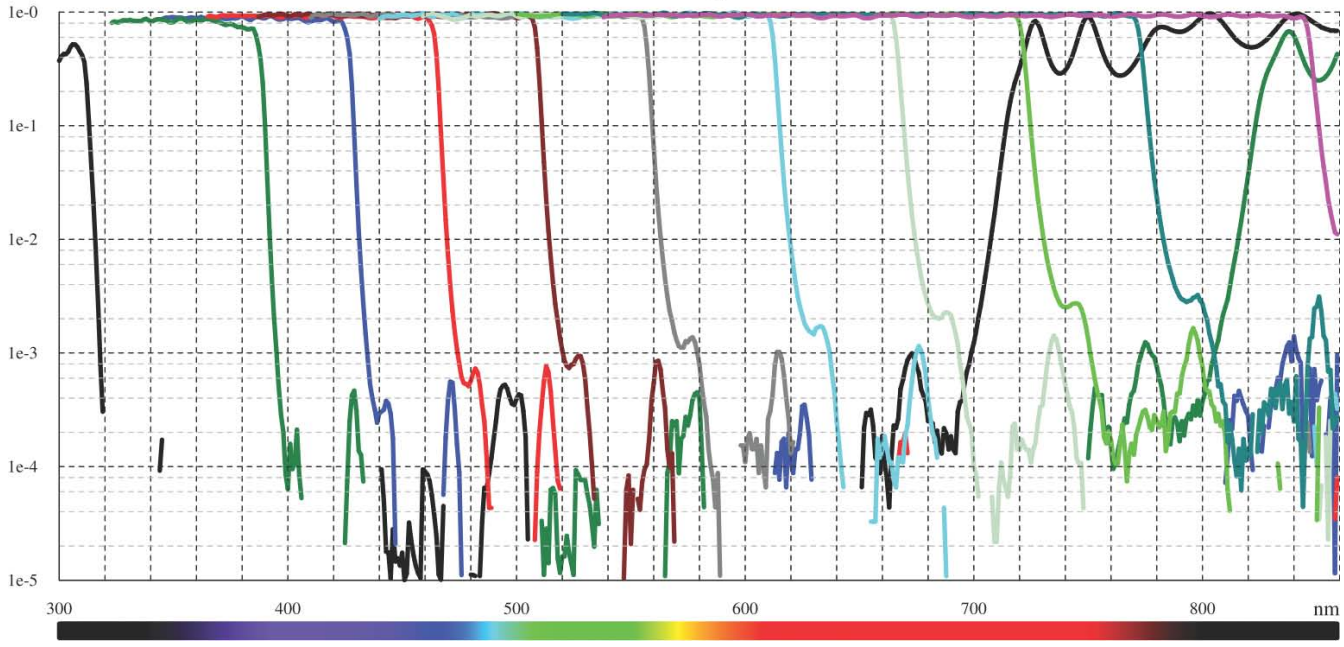
Measured transmission of LVSWP



Measured blocking of LVSWP



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