

Data Sheet



CVLWP 383-1000 (LF104550)

Continuously variable long-wavelength-pass filter with $\lambda_{50\%}$ travelling from ≤ 383 nm to ≥ 1000 nm within ≤ 105 nm.

Broad-band average transmittance

T_{avg}	$\lambda_{50\%}$	Interval start	Interval end
$\geq 90\%$	383 nm – 450 nm	$\lambda_{50\%} + 4$ nm	$\lambda_{50\%} + 80$ nm
$\geq 94\%$	450 nm – 1000 nm	$\lambda_{50\%} + 4$ nm	$\lambda_{50\%} + 80$ nm

Broad-band minimum transmittance

T_{min}	$\lambda_{50\%}$	Interval start	Interval end
$\geq 89\%$	383 nm – 650 nm	$\lambda_{50\%} + 4$ nm	$\lambda_{50\%} + 80$ nm
$\geq 82\%$	650 nm – 1000 nm	$\lambda_{50\%} + 4$ nm	$\lambda_{50\%} + 80$ nm or 1050 nm (whichever is smallest)

Near-edge minimum transmittance

T_{min}	$\lambda_{50\%}$	Interval start	Interval end
$\geq 80\%$	383 nm – 400 nm	$1.005 * \lambda_{50\%}$	$1.02 * \lambda_{50\%}$
$\geq 83\%$	400 nm – 450 nm	$1.005 * \lambda_{50\%}$	$1.02 * \lambda_{50\%}$
$\geq 78\%$	450 nm – 650 nm	$1.005 * \lambda_{50\%}$	$1.02 * \lambda_{50\%}$
$\geq 75\%$	650 nm – 1000 nm	$1.005 * \lambda_{50\%}$	$1.02 * \lambda_{50\%}$

Broad-band blocking (maximum transmittance)

T_{max}	$\lambda_{50\%}$	Interval start	Interval end
$\leq 0.01\%$	383 – 1000 nm	$0.6 * \lambda_{50\%}$ or 300 nm (whichever is longer)	$0.975 * \lambda_{50\%} - 6$ nm
$\leq 1\%$	383 – 1000 nm	$0.6 * \lambda_{50\%}$ or 300 nm (whichever is longer)	$0.985 * \lambda_{50\%} - 3$ nm
$\leq 10\%$	383 – 1000 nm	$0.6 * \lambda_{50\%}$ or 300 nm (whichever is longer)	$0.99 * \lambda_{50\%} - 3$ nm

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