

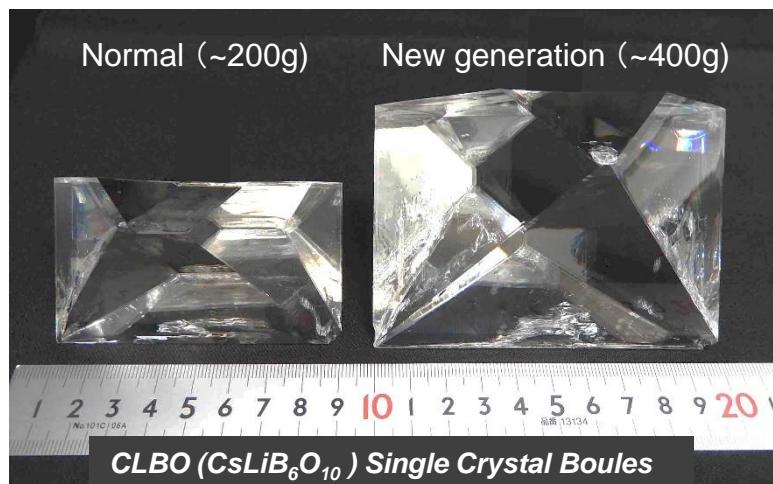
CLBO



Unrivaled NLO Crystal Grown by Our Cutting-Edge Technology

Advantages

- ✓ Short cut-off at 180nm
- ✓ Large Angle Tolerance
- ✓ Small Walk-off Angle
- ✓ No Saturation for High-Power Generation

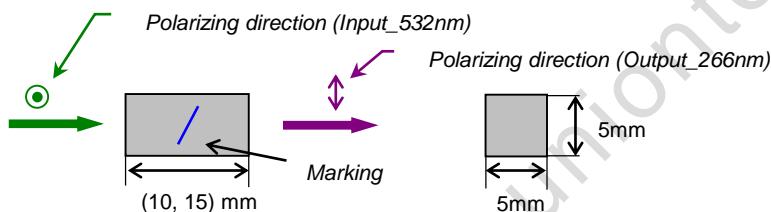


Typical Specifications

For 266nm

Cut Angle: $\theta = 62.0$ deg., $\phi = 45$ deg.

Dimensions: 5x5x10mm, Both Surfaces: Optically Polished



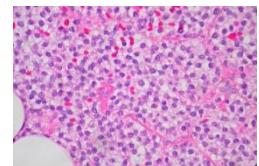
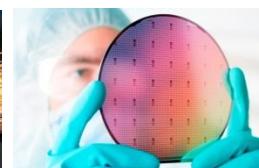
*Cut angle and dimensions are selectable.

Large clear aperture up to ~20mm available now!



Application

- ✓ Machining
- ✓ Micro Processing
- ✓ Semiconductor Inspection
- ✓ Bio-Medical
- ✓ UV-LIDAR



The sole official licensee

Comprehensive set of licensed patents, including material, its application and use

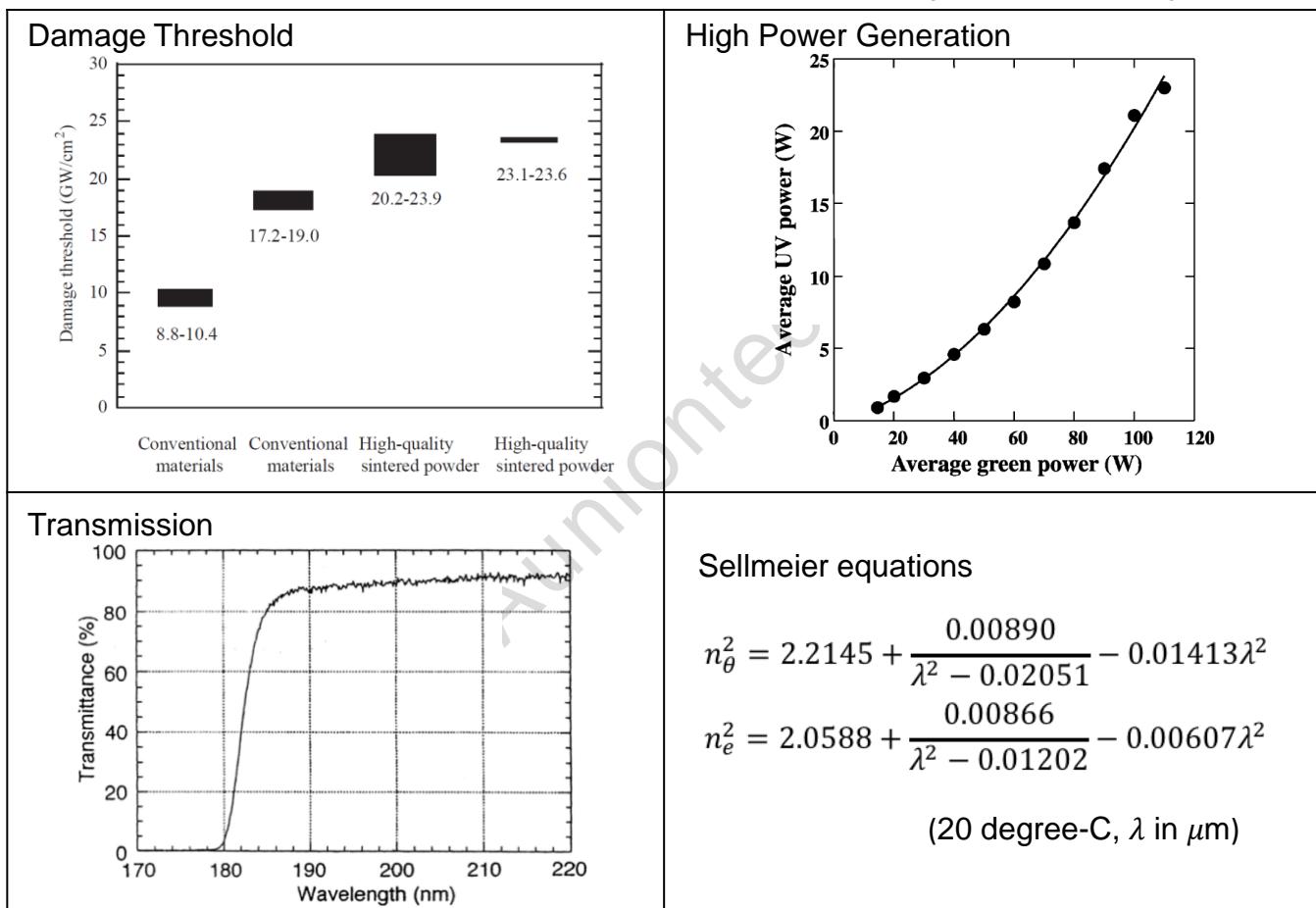
CLBO crystal : JPN #2812427, #2744604 USA #6296784, #5998313 EU #693581, #786542

Application : JPN #4911494 USA #794863 CHN #ZL200780006027.X TWN #I408482

Properties & Sellmeier's Equations

Wavelength (nm)	NLO Crystal	Phase Matching Angle (deg)	d_{eff} (pm/V)	Angle Tolerance (mrad · cm)	Walk-off Angle (deg)
1064+532 = 355	CLBO	48.9	0.71	0.92	2.11
	BBO	34.6	2.01	0.24	4.47
532+532 = 266	CLBO	62.0	0.79	0.55	1.84
	BBO	47.7	1.75	0.19	4.89
1064+266 = 213	CLBO	68.3	0.95	0.48	1.66
	BBO	51.1	1.95	0.13	5.51

Remark: PMT = 150 degree-C @CLBO, 27 degree-C @BBO



References

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