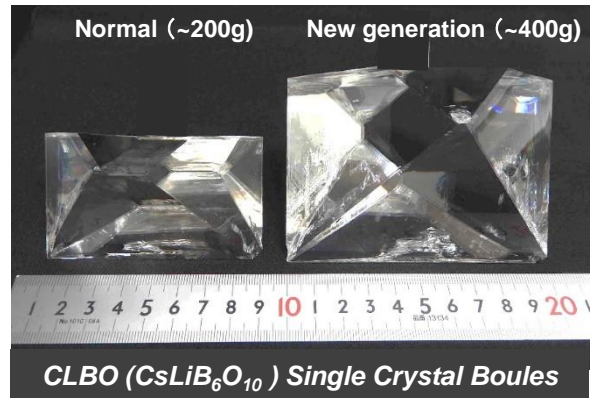


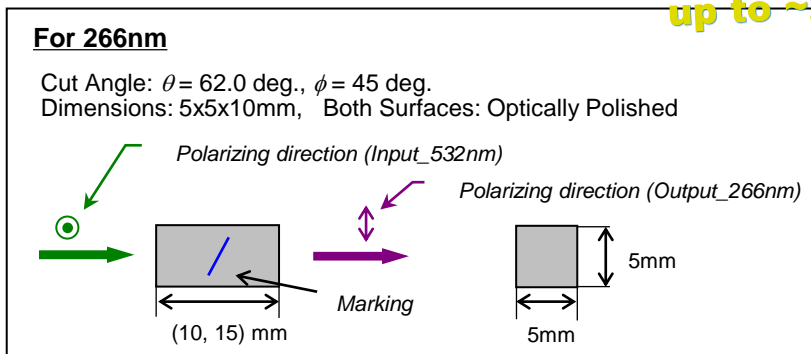
Advantages

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



Typical Specifications

**Large clear aperture
up to ~20mm available now!**

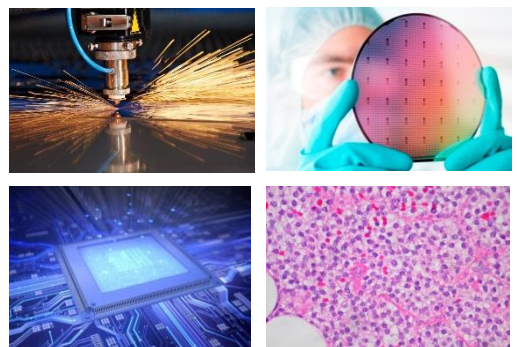


*Cut angle and dimensions are selectable.



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 #7948673 CHN #ZL200780006027.X TWN #1408482

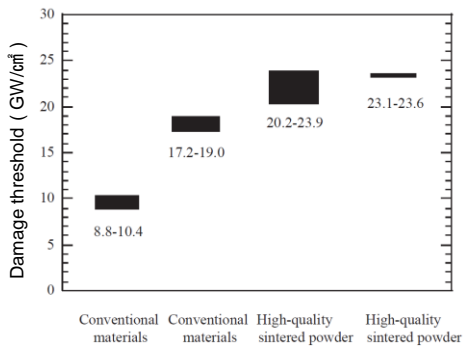


Properties & Sellmeier's Equations

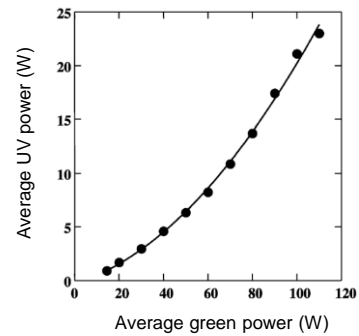
Wavelength (nm)	NLO Crystal	Phase Matching Angle (deg)	deff (pm/V)	Angle Tolerance (mrad cm)	Walk-off Angle (deg)
1064+532 = 355	CLBO	48.9	0.71	0.92	2.11
	BBO	34.6	2.01	0.24	4.47
532+532 = 266	CLBO	62.0	0.79	0.55	1.84
	BBO	47.7	1.75	0.19	4.89
1064+266 = 213	CLBO	68.3	0.95	0.48	1.66
	BBO	51.1	1.95	0.13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

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

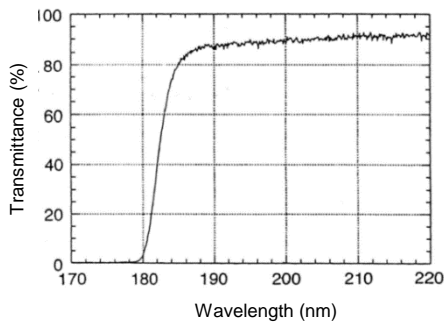
Damage Threshold *1



High Power Generation *1



Transmission *2



Sellmeier equations *3

$$n_o^2 = 2.2145 + \frac{0.00890}{\lambda^2 - 0.02051} - 0.01413\lambda^2$$

$$n_e^2 = 2.0588 + \frac{0.00866}{\lambda^2 - 0.01202} - 0.00607\lambda^2$$

(20 degree-C, λ in μm)

References

- *1 M.Nishioka, A.Kanoh, M.Yoshimura, Y.Mori, and T.Sasaki, "Growth of CLBO crystals with high laser-damage tolerance", Journal of Crystal Growth 279 (2005) 76-81
- *2 T.Sasaki, Y.Mori, M.Yoshimura, "Progress in the growth of a CsLiB6O10 crystal and its application to ultraviolet light generation", Optical Materials, 23 (2003) 343-351
- *3 N.Umemura and K.Kato, "Ultraviolet generation tunable to 0.185 μm in CsLiB6O10", Applied Optics, 36 (1997) 6794-6796

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