

**Unrivaled NLO Crystal Grown by Our Cutting-Edge Technology**



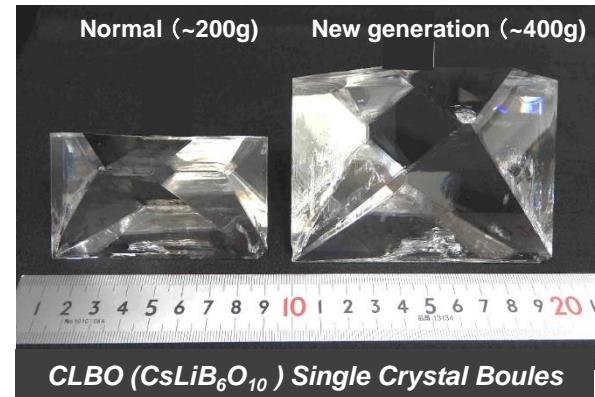
**海纳光学**

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## Advantages

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

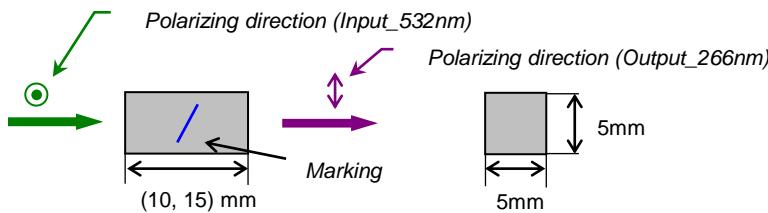


## Typical Specifications

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

### For 266nm

Cut Angle:  $\theta = 62.0$  deg.,  $\phi = 45$  deg.  
Dimensions: 5x5x10mm, Both Surfaces: Optically Polished

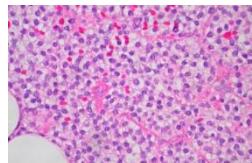
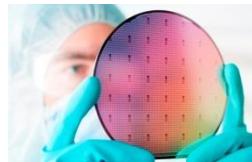


\*Cut angle and dimensions are selectable.



## Application

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



**The sole official licensee**

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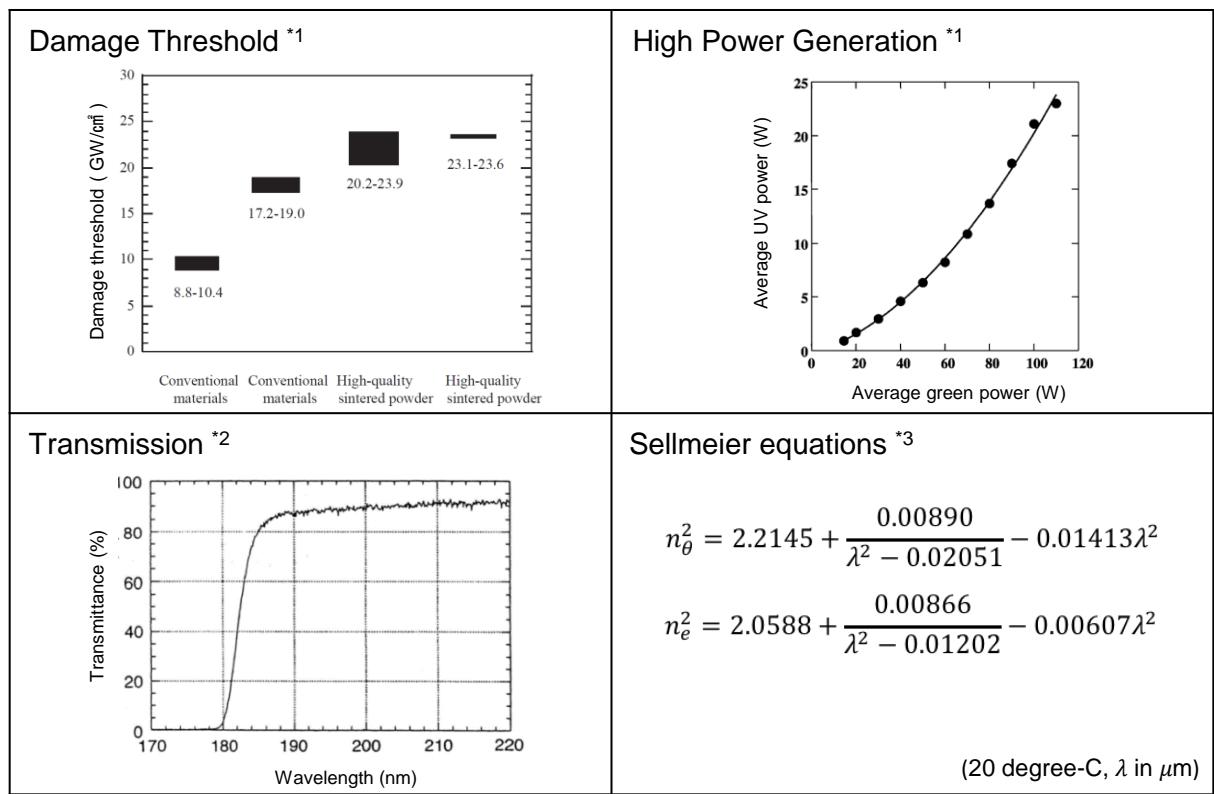


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# Properties & Sellmeier's Equations

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

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



## 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 CsLiB<sub>6</sub>O<sub>10</sub> 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  $\mu\text{m}$  in CsLiB<sub>6</sub>O<sub>10</sub>”,  
Applied Optics, 36 (1997) 6794-6796

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