

BIBO CRYSTALS



BIBO (BiB3O6) is a newly developed Nonlinear Optical Crystal. It possesses large effective nonlinear coefficient, high damage threshold and is non-hydroscopic. It's nonlinear coefficient is 3.5 - 4 times higher than that of LBO, 1.5 -2 times higher than that of BBO. It can efficiently frequency doubling the 946nm to produce blue laser at 473nm.

Specification	
Aperture	1 × 1 ~ 15 × 15mm
Length	0.01 ~ 25mm
Phase Matching Angle θ and φ	Determined by different kinds of harmonic generation
Phase Matching Type	Type I or Type II
End Configuration	Flat or Brewster or Specified
Angle Tolerance	$\Delta\theta < \pm 0.5^\circ$; $\Delta\varphi < \pm 0.5^\circ$
Dimension Tolerance	[W ± 0.1mm] × [H ± 0.1mm] × [L + 0.2mm/-0.1mm]
Flatness	$\lambda/8$ @ 633nm
Surface Quality	10 / 5
Parallelism	<20 arc seconds
Perpendicularity	5 arc minutes
Wavefront Distortion	less than $\lambda/8$ @ 633nm
Clear Aperture	> 90%
Coating	P-coatings, AR-coatings and mounts