

BBO CRYSTALS

BBO crystal remains the most versatile nonlinear optical crystals thanks to its unique combination of optical properties and availability of large single crystals. It has been widely used in second and higher order harmonic generation, frequency mixing, broadly tunable sources and parametric conversion applications.



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	$\Delta\theta$ < ± 0.5°; $\Delta\phi$ < ±0.5°
Dimension Tolerance	[W ± 0.1mm] × [H ± 0.1mm] × [L + 0.2mm/-0.1mm]
Flatness	λ/8 @ 633nm
Surface Quality	10 / 5
Parallelism	better than 20 arc seconds
Perpendicularity	5 arc minutes
Wavefront Distortion	less than λ/8 @ 633nm
Clear Aperture	> 90% central area
Coating	P-coatings, AR-coatings and mounts