## **BIBO**



硼酸铋 (BiB306) 是一种新开发的非线性光学晶体,具有较大的有效非线性光学系数,高损伤阈值及不易潮解等特性。

其非线性系数比LBO高3.5 - 4倍,比BBO高1.5 - 2倍。它可以有效地倍频946nm,在473nm处产生蓝色激光。

BIBO(BiB306)is a newly developed Nonlinear Optical Crystal.It possesses large effective nonlinear coefficient, high damage threshold and is non-hydroscopic.

Its 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.

## 主要特点 Features

● 透光范围 286-2500nm

Light transmission range 286-2500nm

● 有效非线性光学系数大

Large effective nonlinear optical coefficient

● 高损伤阈值

High damage threshold

● 不易潮解,物化性能稳定

Not easy to deliquesce, stable physical and chemical properties



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## 性能参数:

Flatness	λ/8 at 633nm
Parallelism	≤20 arcsec
Wavefront Distortion	λ/8 at 633nm
Surface Quality	10-5
Perpendicularity	≤5 arcmin
Angle tolerance	∆8,∆φ≤±0.25°
Dimension tolerance	±0.1mm
ClearAperture	90% of central area
Chamfer	≤0.2mmx45°
Chip	≤0.1mm
Damage Threshold	0.3GW/cm21064nm TEM0O 10ns 10HzAR-coated
Aperture	2x2-25x25mm
Length	1-20mm
Cutting angle q and f	Determined by different kinds hormonic generation
Phase matching type	Type I ortype II

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