

BBO

LBO

KTP

KTA

RTP

DKDP

## BBO

BBO is a nonlinear optical crystal with combination of a number of unique features:

As a result of its excellent properties BBO crystal has a number of advantages for different applications:

NOPA (non collinear phase matching OPA) with femtosecond NIR pulses

Harmonics generation (up to fifth) of Nd:YAG and Nd:YLF lasers

Frequency conversion crystals for frequency doubling and tripling of ultrashort pulse Ti:Sapphire and Dye lasers

Optical parametric oscillators (OPO) at both Type 1 and Type 2 phase-matching

Frequency doubling of Argon ion and Copper vapour laser radiation

Electro-optical (E/O) switching crystals for Pockels cells

Polarization entangled photon pairs generation

**LASERTEC offers:**

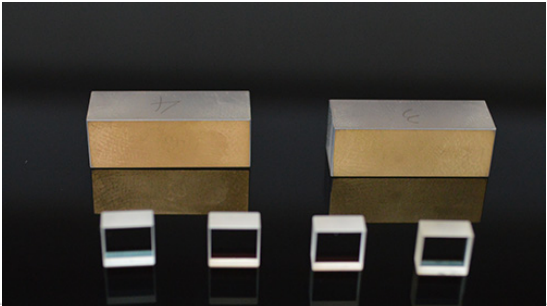
BBO Crystal aperture up to 22×22 mm

BBO Crystal length up to 25 mm

Thin BBO crystals down to 5 μm thick AR, BBAR, P-coating

BBO with gold electrodes for electro-optical (e/o) applications

Different mounting and repolishing services



Angle tolerance:	$\Delta\theta< \pm 0.25^{\circ}$ ; $\Delta\varphi< \pm 0.25^{\circ}$
Dimension tolerance:	(W $\pm$ 0.1mm) x (H $\pm$ 0.1mm) x (L + 0.2mm/-0.1mm)
Flatness:	Less than $\lambda/8$ @ 632.8nm
Wavefront distortion:	Less than $\lambda/8$ @ 632.8nm
Chamfer	Chamfer: $\leq 0.2\text{mm}@45^{\circ}$
Scratch/Dig code:	10/5 per MIL-PRF-13830B
Parallelism:	Better than 20 arc seconds
Perpendicularity:	15 arc minutes
Clear aperture:	> 90% central area
Inside quanlity	No visible scattering
Quality Warranty	One year under proper use

Application: SHG,THG,FHG

Part No	W	H	L	$\theta$	$\varphi$	Coating
BBO-447S	4	4	7	22.8	0	AR/AR1064&532nm
BBO-447T	4	4	7	31.3	0	AR/AR1064&532&355nm
BBO-447F	4	4	7	47.7	0	AR/AR532&266nm
BBO-557S	5	5	7	22.8	0	AR/AR1064&532nm
BBO-557T	5	5	7	31.3	0	AR/AR1064&532&355nm
BBO-557F	5	5	7	47.7	0	AR/AR532&266nm
BBO-667S	6	6	7	22.8	0	AR/AR1064&532nm
BBO-667T	6	6	7	31.3	0	AR/AR1064&532&355nm
BBO-667F	6	6	7	47.7	0	AR/AR532&266nm
BBO-6601S	6	6	0.1	29.2	0	P/P@400-800 nm
BBO-6602S	6	6	0.2	29.2	0	P/P@400-800 nm
BBO-6603S	6	6	0.5	29.2	0	P/P@400-800 nm
BBO-6604S	6	6	1	29.2	0	P/P@400-800 nm
BBO-6605S	6	6	2	29.2	0	P/P@400-800 nm
BBO-1001S	10	10	0.1	29.2	0	P/P@400-800 nm
BBO-1002S	10	10	0.2	29.2	0	P/P@400-800 nm
BBO-1003S	10	10	0.5	29.2	0	P/P@400-800 nm
BBO-1004S	10	10	1	29.2	0	P/P@400-800 nm
BBO-6601T	6	6	0.1	44.3	90	P/P@400-800/266 nm
BBO-6602T	6	6	0.2	44.3	90	P/P@400-800/266 nm

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BBO-6605T	6	6	0.5	44.3	90	P/P@400-800/266 nm
BBO-661T	6	6	1	44.3	90	P/P@400-800/266 nm
BBO-1001T	10	10	0.1	44.3	90	P/P@400-800/266 nm
BBO-1002T	10	10	0.2	44.3	90	P/P@400-800/266 nm
BBO-1005T	10	10	0.5	44.3	90	P/P@400-800/266 nm
BBO-10101T	10	10	1	44.3	90	P/P@400-800/266 nm

BBO Crystals with open ring holders

Application: EO Qswitch (Electro Optical Crystal)

Code	W	H	L	Cut	Coating
BBO-2520E	2.5	2.5	20	Z cut	AR1064 nm, Xside gold coating
BBO-2525 E	2.5	2.5	25	Z cut	AR1064 nm, Xside gold coating
BBO-3320 E	3	3	20	Z cut	AR1064 nm, Xside gold coating
BBO-3325E	3	3	25	Z cut	AR1064 nm, Xside gold coating
BBO-4420 E	4	4	20	Z cut	AR1064 nm, Xside gold coating
BBO-4425 E	4	4	25	Z cut	AR1064 nm, Xside gold coating
BBO-6620 E	6	6	20	Z cut	AR1064 nm, Xside gold coating
BBO-6625 E	6	6	25	Z cut	AR1064 nm, Xside gold coating
BBO-101020E	10	10	20	Z cut	AR1064 nm, Xside gold coating

Lasertec was established on 2004,based in China, is a recognized leader in laser components and high-performance optical solutions. Combining adequate Laser material and Laser Optics supply, extensive fabricating experience, and the standardized service, Lasertec specializes in producing high-precision Laser optical components for the Laser, Medical, Life Sciences, Defense & security, Semiconductor, and Industrial OEM markets.

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