

**NONLINEAR CRYSTALS for SHG @ 1064 nm**
**LBO CRYSTALS**

LBO crystals feature the highest damage threshold, small walk-off and have high efficiency. These crystals are the best choice for harmonics generation of relatively high power and high repetition rate Q-switched or mode-locked lasers.

Size, mm	Orientation		Type	Coating	Application	Catalogue number	Price, EUR
	Theta, deg	Phi, deg					
3x3x10	90	11.6	Type 1	AR/AR @ 1064+532 nm	SHG@1064 nm	LBO-401	245
3x3x15	90	11.6	Type 1	AR/AR @ 1064+532 nm	SHG@1064 nm	LBO-402	325
4x4x10	90	11.6	Type 1	AR/AR @ 1064+532 nm	SHG@1064 nm	LBO-301	510
4x4x15	90	11.6	Type 1	AR/AR @ 1064+532 nm	SHG@1064 nm	LBO-302	630
4x4x20	90	11.6	Type 1	AR/AR @ 1064+532 nm	SHG@1064 nm	LBO-303	745
5x5x10	90	11.6	Type 1	AR/AR @ 1064+532 nm	SHG@1064 nm	LBO-501	655
5x5x15	90	11.6	Type 1	AR/AR @ 1064+532 nm	SHG@1064 nm	LBO-503	765
5x5x20	90	11.6	Type 1	AR/AR @ 1064+532 nm	SHG@1064 nm	LBO-502	940
3x3x15	90	0	Type 1	AR/AR @ 1064+532 nm	NCPM SHG@1064 nm, T=149 °C	LBO-404	325
3x3x20	90	0	Type 1	AR/AR @ 1064+532 nm	NCPM SHG@1064 nm, T=149 °C	LBO-405	405
3x3x30	90	0	Type 1	AR/AR @ 1064+532 nm	NCPM SHG@1064 nm, T=149 °C	LBO-409	710
3x3x50	90	0	Type 1	AR/AR @ 1064+532 nm	NCPM SHG@1064 nm, T=149 °C	LBO-410	1300
4x4x10	90	0	Type 1	AR/AR @ 1064+532 nm	NCPM SHG@1064 nm, T=149 °C	LBO-304	510
4x4x15	90	0	Type 1	AR/AR @ 1064+532 nm	NCPM SHG@1064 nm, T=149 °C	LBO-305	630
4x4x20	90	0	Type 1	AR/AR @ 1064+532 nm	NCPM SHG@1064 nm, T=149 °C	LBO-306	745

**KTP CRYSTALS**

KTP crystals feature the highest efficiency and are suited for low average power or CW lasers applications. These crystals are temperature change insensitive and operate with sharply focused or highly divergent laser beams.

Size, mm	Orientation		Type	Coating	Application	Catalogue number	Price, EUR
	Theta, deg	Phi, deg					
3x3x5	90	23.5	Type 2	AR/AR @ 1064+532 nm	SHG@1064 nm	KTP-401	76
3x3x10	90	23.5	Type 2	AR/AR @ 1064+532 nm	SHG@1064 nm	KTP-402	109
4x4x6	90	23.5	Type 2	AR/AR @ 1064+532 nm	SHG@1064 nm	KTP-403	118
7x7x9	90	23.5	Type 2	AR/AR @ 1064+532 nm	SHG@1064 nm	KTP-404	529

**DKDP CRYSTALS**

Large aperture DKDP crystals are used for high energy Q-switched lasers with large beam diameters.

Size, mm	Orientation		Type	Coating	Application	Catalogue number	Price, EUR
	Theta, deg	Phi, deg					
15x15x13	36.5	45	Type 1	AR/AR @ 1064/1064+532 nm	SHG@1064 nm	DKDP-401	890
15x15x13	53.5	0	Type 2	AR/AR @ 1064/1064+532 nm	SHG@1064 nm	DKDP-402	890
12x12x20	53,5	0	Type 2	AR/AR @ 1064/1064+532 nm	SHG@1064 nm	DKDP-404	830
15x15x20	53,5	0	Type 2	AR/AR @ 1064/1064+532 nm	SHG@1064 nm	DKDP-405	950

Please contact EK SMA OPTICS for special OEM and large volume pricing.

**Related Products**

Ovens with thermocontrollers and heaters for different crystal sizes  
See pages 2.28–2.29



## NONLINEAR CRYSTALS for THG @ 1064 nm

### LBO CRYSTALS

Size, mm	Orientation		Type	Coating	Application	Catalogue number	Price, EUR
	Theta, deg	Phi, deg					
3x3x10	42.2	90	Type 2	AR/AR @ 1064+532/355 nm	THG@1064 nm	<a href="#">LBO-406</a>	245
3x3x15	42.2	90	Type 2	AR/AR @ 1064+532/355 nm	THG@1064 nm	<a href="#">LBO-407</a>	325
5x5x15	42.2	90	Type 2	AR/AR @ 1064+532/355 nm	THG@1064 nm	<a href="#">LBO-508</a>	765

### DKDP CRYSTALS

Size, mm	Orientation		Type	Coating	Application	Catalogue number	Price, EUR
	Theta, deg	Phi, deg					
12x12x20	59.3	0	Type 2	AR/AR @ 1064+532/355 nm	THG@1064 nm	<a href="#">DKDP-403</a>	830
15x15x20	59.3	0	Type 2	AR/AR @ 1064+532/355 nm	THG@1064 nm	<a href="#">DKDP-406</a>	950

## NONLINEAR CRYSTALS for 4HG @ 1064 nm

### BBO CRYSTALS

Size, mm	Orientation		Type	Coating	Application	Catalogue number	Price, EUR
	Theta, deg	Phi, deg					
7x7x6	47.6	90	Type 1	P/P @ 532/266 nm	SHG@532 nm	<a href="#">BBO-700</a>	925

### KDP CRYSTALS

Size, mm	Orientation		Type	Coating	Application	Catalogue number	Price, EUR
	Theta, deg	Phi, deg					
12x12x5	76.5	45	Type 1	AR/AR @ 532/266 nm	SHG@532 nm	<a href="#">KDP-401</a>	408
15x15x7	76.5	45	Type 1	AR/AR @ 532/266 nm	SHG@532 nm	<a href="#">KDP-402</a>	480

## Housing Accessories

Ring Holders  
for Nonlinear Crystals

See page 2.27



Positioning Mount 840-0199 for  
Nonlinear Crystal Housing

See page 2.26

