

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.

Catalogue number	Size, mm	Orientation		Type	Coating	Application	Price, EUR
		Theta, deg	Phi, deg				
LBO-401	3x3x10	90	11.6	Type 1	AR/AR @ 1064+532 nm	SHG@1064 nm	245
LBO-402	3x3x15	90	11.6	Type 1	AR/AR @ 1064+532 nm	SHG@1064 nm	325
LBO-403	5x5x15	90	11.6	Type 1	AR/AR @ 1064+532 nm	SHG@1064 nm	765
LBO-404	3x3x15	90	0	Type 1	AR/AR @ 1064+532 nm	NCPM SHG@1064 nm, T=149 °C	325
LBO-405	3x3x20	90	0	Type 1	AR/AR @ 1064+532 nm	NCPM SHG@1064 nm, T=149 °C	405

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.

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

DKDP crystals

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

Catalogue number	Size, mm	Orientation		Type	Coating	Application	Price, EUR
		Theta, deg	Phi, deg				
DKDP-401	15x15x13	36.5	45	Type 1	AR/AR @ 1064/1064+532 nm	SHG@1064 nm	485
DKDP-402	15x15x13	53.5	0	Type 2	AR/AR @ 1064/1064+532 nm	SHG@1064 nm	485
DKDP-404	12x12x20	53.5	0	Type 2	AR/AR @ 1064/1064+532 nm	SHG@1064 nm	475
DKDP-405	15x15x20	53.5	0	Type 2	AR/AR @ 1064/1064+532 nm	SHG@1064 nm	579

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for special OEM and large volume pricing.

RELATED PRODUCTS

Ovens with thermocontrollers and heaters for different crystal sizes

See pages 2.30–2.34



NONLINEAR CRYSTALS for THG@1064 nm

LBO crystals

Catalogue number	Size, mm	Orientation		Type	Coating	Application	Price, EUR
		Theta, deg	Phi, deg				
LBO-406	3x3x10	42.2	90	Type 2	AR/AR @ 1064+532/355 nm	THG@1064 nm	245
LBO-407	3x3x15	42.2	90	Type 2	AR/AR @ 1064+532/355 nm	THG@1064 nm	325
LBO-408	5x5x15	42.2	90	Type 2	AR/AR @ 1064+532/355 nm	THG@1064 nm	765

DKDP crystals

Catalogue number	Size, mm	Orientation		Type	Coating	Application	Price, EUR
		Theta, deg	Phi, deg				
DKDP-403	12x12x20	59.3	0	Type 2	AR/AR @ 1064+532/355 nm	THG@1064 nm	475
DKDP-406	15x15x20	59.3	0	Type 2	AR/AR @ 1064+532/355 nm	THG@1064 nm	579

NONLINEAR CRYSTALS for 4HG@1064 nm

BBO crystals

Catalogue number	Size, mm	Orientation		Type	Coating	Application	Price, EUR
		Theta, deg	Phi, deg				
BBO-700	7x7x6	47.6	90	Type 1	P/P @ 532/266 nm	SHG@532 nm	807

KDP crystals

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

HOUSING ACCESSORIES

Ring Holders
for Nonlinear Crystals
See page 2.27



Positioning Mount
840-0199 for
Nonlinear Crystal
Housing
See page 2.29

