

6 x 6 x 0.9mm, 1030nm SHG, Type I LBO Nonlinear Crystal



6 x6 x0.9mm, 1030nm SHG, Type I LBO Nonlinear Crystal, #11-171

Stock **#11-171** 3 In Stock

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1

+

€785⁰⁰

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Volume Pricing	
Qty 1+	€785,00 each
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Product Downloads

General	
Nonlinear Crystal	Type:
SHG @ 1030nm, Type I	Typical Applications:
LBO	Crystal Type:
<0.1mm x45°	Protective Chamfer:

Physical & Mechanical Properties

6.0 x6.0 +0.0/-0.1	Dimensions (mm):
0.90 +0.0/-0.1	Thickness (mm):
<20	Parallelism (arcsec):
<5	Perpendicularity (arcmin):

Optical Properties

20-10	Surface Quality:
AR Coating	Coating:
1030	Design Wavelength DWL (nm):
λ /10	Surface Flatness (P-V):
S1: 515 & 1030nm AR Coating S2: 515 & 1030nm AR Coating	Coating Specification:
10 J/cm ² @ 1064nm, 10ns, 10Hz	Damage Threshold, By Design: ☐
10 J/cm ² @ 1064nm, 10ns, 10Hz	Damage Threshold, Pulsed:
90/13.8	Orientation Θ/Φ (°):

Threading & Mounting

Unmounted	Mount:
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Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

Product Details

- BBO Crystals for Frequency Conversion of 800nm and 1030nm Lasers
- LBO Crystals for Frequency Conversion of 1030nm and 1064nm Lasers
- High Damage Thresholds Up to 10 J/cm² @ 1064nm, 10ns, 10Hz
- Broad Transparency Range from the UV to the IR

Nonlinear Crystals of either β -barium borate (BBO) or lithium triborate (LBO) are used for frequency conversion of laser sources. BBO crystals feature thicknesses from 0.2mm to 0.5mm to minimize group velocity mismatch and are ideal for frequency doubling or tripling of Ti:Sapphire and Yb:doped laser pulses. The critical and noncritical phase matching LBO crystals are ideal for second or third harmonic generation of Nd:YAG and Yb:doped lasers. Nonlinear Crystals with 20-10 surface quality and λ /10 (LBO) or λ /8 (BBO) surface flatness provide the broad transparency range and large nonlinear coefficient needed for the harmonic generation of fundamental laser frequencies. Each crystal features a protective anti-reflection (AR) coating that minimizes reflection and limits fogging from ambient conditions.