

3 x 3 x 10mm, 1064nm SHG, Type I LBO Nonlinear Crystal



Stock #24-199 **5 In Stock**

⊖ 1 ⊕ A\$521⁰⁰

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Volume Pricing

Qty 1-2	A\$521.60 each
Qty 3+	A\$472.00 each
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General

Nonlinear Crystal **Type:**

SHG @ 1064 nm, Type I **Typical Applications:**

LBO **Crystal Type:**

<0.1 mm x45° **Protective Chamfer:**

Physical & Mechanical Properties

3.0 x 3.0 +0.0/-0.1	Dimensions (mm):
10.00 +0.0/-0.1	Thickness (mm):
Not Specified	Clear Aperture CA (mm):
<20	Parallelism (arcsec):
<5	Perpendicularity (arcmin):

Optical Properties

20-10	Surface Quality:
AR Coating	Coating:
1064	Design Wavelength DWL (nm):
$\lambda/8$ @ 632.8nm	Surface Flatness (P-V):
Coating Specification: S1: 1064 & 532nm AR Coating S2: 1064 & 532nm AR Coating	
Damage Threshold, By Design: <input type="checkbox"/> >10 J/cm ² @ 1064nm, 10ns, 10Hz	
Damage Threshold, Pulsed: >10 J/cm ² @ 1064nm, 10ns, 10Hz	
90/11.6	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 $\lambda/10$ (LBO) or $\lambda/8$ (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.