

3 x 3 x 15mm, 1064nm SHG, Type I LBO Nonlinear Crystal



Stock **#11-173** **3 In Stock**

-

1

+

£356^{.00}

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Volume Pricing	
Qty 1-2	£356.00 each
Qty 3+	£320.00 each
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 Prices shown are exclusive of VAT/local taxes

Product Downloads

General	
Nonlinear Crystal	Type:
SHG @ 1064nm, Type I	Typical Applications:
LBO	Crystal Type:
<0.1mm x45°	Protective Chamfer:

Physical & Mechanical Properties	
3.0 x 3.0 +0.0/-0.1	Dimensions (mm):
	Thickness (mm):
15.00 +0.0/-0.1	
<20	Parallelism (arcsec):
<5	Perpendicularity (arcmin):
Optical Properties	
20-10	Surface Quality:
	Coating:
AR Coating	
1064	Design Wavelength DWL (nm):
λ /10	Surface Flatness (P-V):
Coating Specification:	
S1: 532 & 1064nm AR Coating	
S2: 532 & 1064nm AR Coating	
Damage Threshold, By Design: ☐	
10 J/cm ² @ 1064nm, 10ns, 10Hz	
Damage Threshold, Pulsed:	
10 J/cm ² @ 1064nm, 10ns, 10Hz	
Orientation Θ/Φ (°):	
90/11.6	

Threading & Mounting	
Unmounted	Mount:

Regulatory Compliance	
Compliant	RoHS 2015:
Compliant	Reach 219:
View	Certificate of Conformance:

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.