

15 x 15 x 7mm, 532nm SHG, Type I KDP Nonlinear Crystal



Stock #24-198 **5 In Stock**

- 1 + £554.⁴⁰

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Volume Pricing	
Qty 1+	£554.40 each
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! Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Nonlinear Crystal **Type:**

SHG @532 nm, Type I **Typical Applications:**

KDP **Crystal Type:**

<0.1 mm x45° **Protective Chamfer:**

Physical & Mechanical Properties

15.0 x 15.0 +0.0/-0.1	Dimensions (mm):
7.00 +0.0/-0.1	Thickness (mm):
>13.5	Clear Aperture CA (mm):
<10	Parallelism (arcsec):
<5	Perpendicularity (arcmin):

Optical Properties

20-10	Surface Quality:
AR Coating	Coating:
532	Design Wavelength DWL (nm):
$\lambda/8$ @ 633nm	Surface Flatness (P-V):
Coating Specification: S1: 266 & 532nm AR Coating S2: 266 & 532nm AR Coating	
Damage Threshold, By Design: <input type="checkbox"/> 5 J/cm ² @ 532nm, 10ns, 10Hz 2.5 J/cm ² @ 266nm, 10ns, 10Hz	
Not Specified	Damage Threshold, Pulsed:
76.5/45	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.