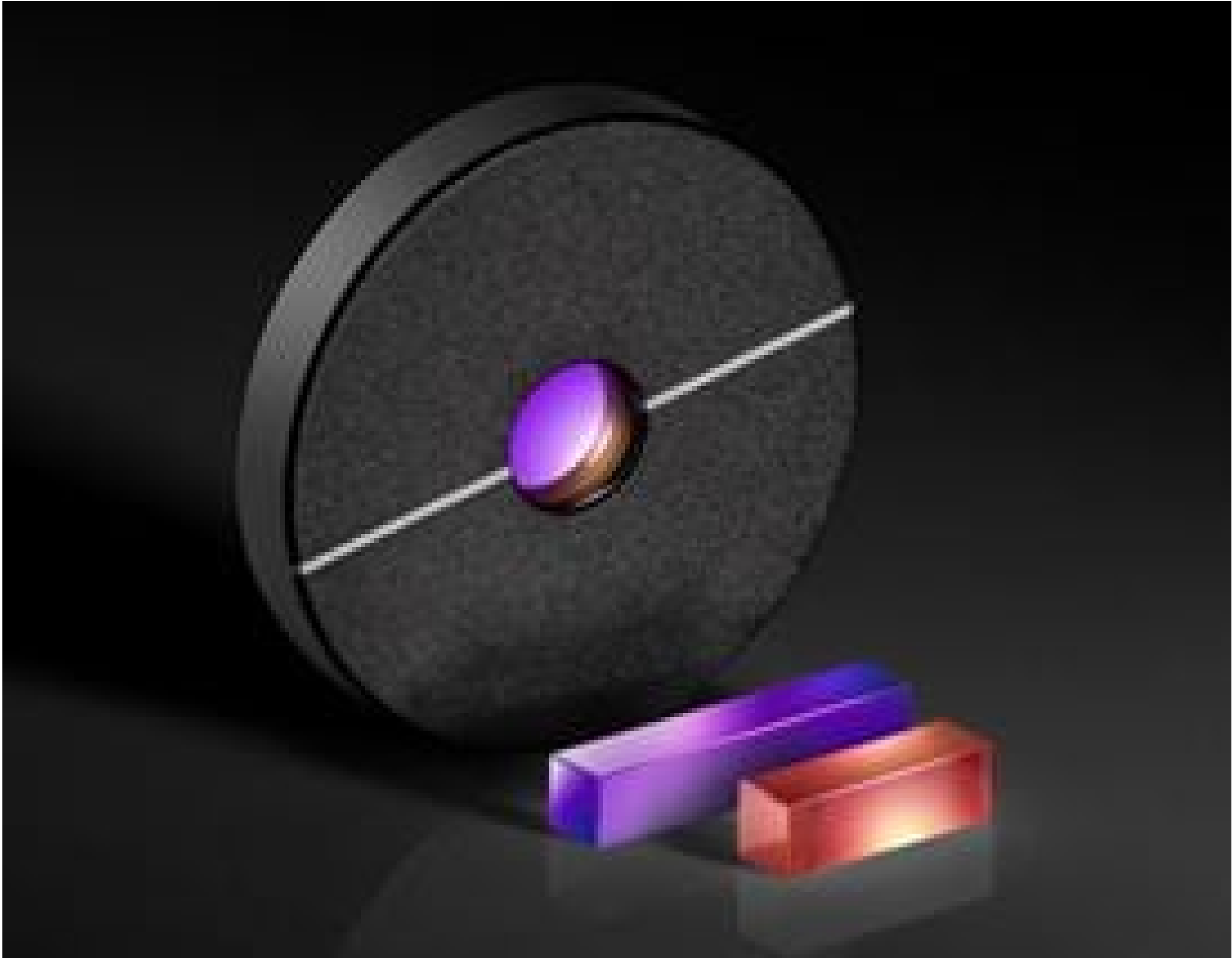


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6 x 6 x 0.5mm, 515nm SHG, Type I BBO Nonlinear Crystal



Stock **#24-201** 4 In Stock

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1

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£529^{.20}

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i Prices shown are exclusive of VAT/local taxes

Product Downloads

General	
Nonlinear Crystal	Type:
SHG @515 nm, Type I	Typical Applications:
Mount is 25.4mm Dia. 6mm Thick Unthreaded Black Anodized Metal Mount (see drawing for more information)	Note:
BBO	Crystal Type:

Protective Chamfer:	
<0.1 mm x45°	
Physical & Mechanical Properties	
Dimensions (mm):	
6.0 x6.0 +0.0/-0.1	
Thickness (mm):	
0.50 +0.0/-0.03	
Clear Aperture CA (mm):	
>5	
Parallelism (arcsec):	
<20	
Perpendicularity (arcmin):	
<5	
Optical Properties	
Surface Quality:	
20-10	
Coating:	
AR Coating	
Design Wavelength DWL (nm):	
515	
Surface Flatness (P-V):	
λ/4 @ 632.8nm	
Coating Specification:	
S1: 257 & 515nm Protective Coating	
S2: 257 & 515nm Protective Coating	
Damage Threshold, By Design: ☐	
>1 GW/cm ² @ 1064nm, 10ns	
Damage Threshold, Pulsed:	
>1 GW/cm ² @ 1064nm, 10ns	
Orientation Θ/Φ (°):	
50.2/90	
Threading & Mounting	
Mount:	
Mounted	
Mount Thickness (mm):	
6 (unthreaded)	
Mount Diameter (mm):	
25.4	
Regulatory Compliance	
RoHS 2015:	
Compliant	
Certificate of Conformance:	
View	
Reach 247:	
Compliant	

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.