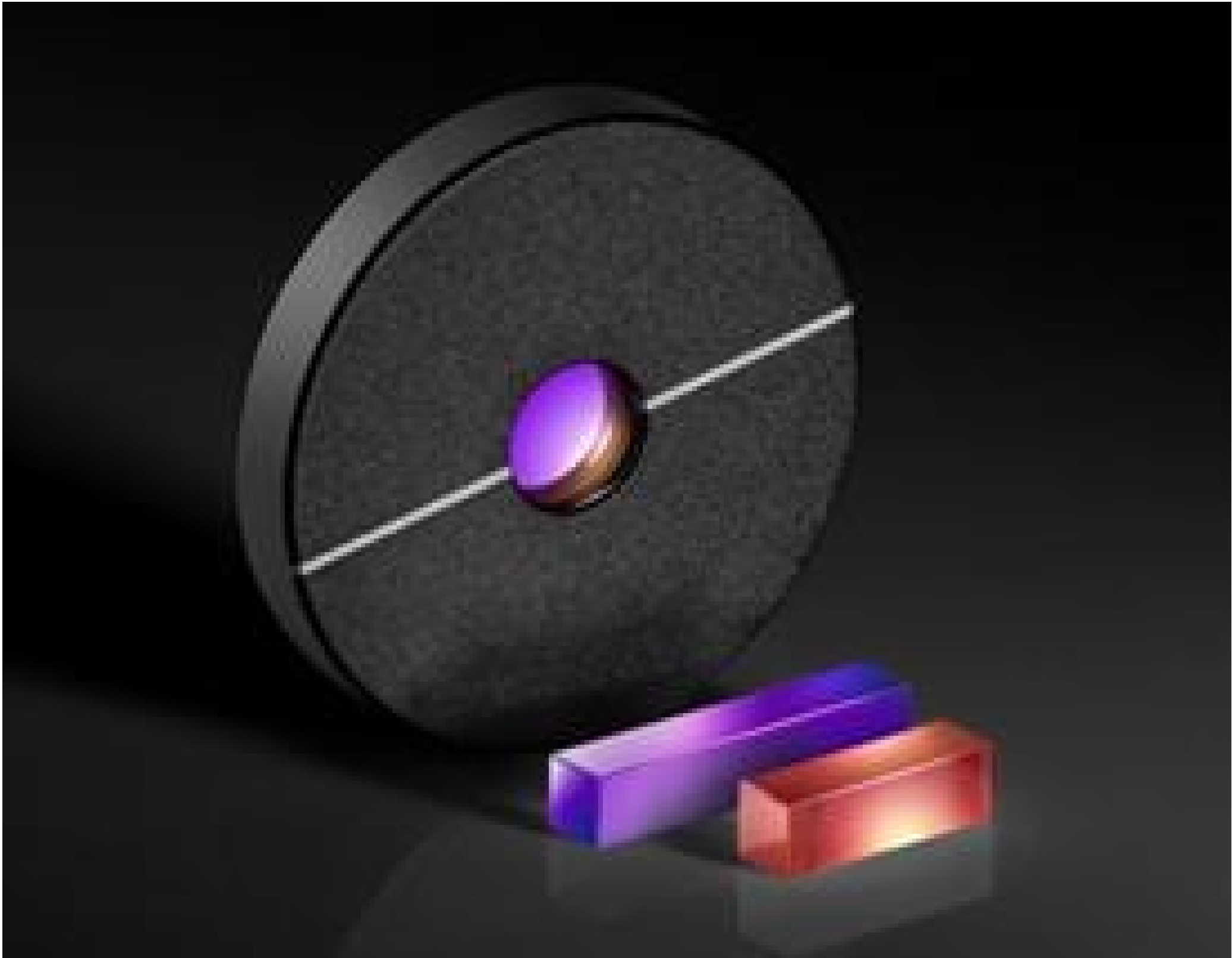


12 x 12 x 5mm, 532nm SHG, Type I KDP Nonlinear Crystal



Stock **#24-197** 5 In Stock

-

1

+

S\$903^{.00}

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Volume Pricing	
Qty 1-2	S\$903.00 each
Qty 3+	S\$812.00 each
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SPECIFICATIONS

General	
KDP	Crystal Type:
<0.1 mm x45°	Protective Chamfer:
Typical Applications:	

SHG @ 532 nm, Type I	
Nonlinear Crystal	Type:
Physical & Mechanical Properties	
Clear Aperture CA (mm):	
>10.8	
Dimensions (mm):	
12.0 x 12.0 +0.0/-0.1	
Thickness (mm):	
5.00 +0.0/-0.1	
Parallelism (arcsec):	
<10	
Perpendicularity (arcmin):	
<5	
Optical Properties	
Design Wavelength DWL (nm):	
532	
Orientation Θ/Φ (°):	
76.5/45	
Coating:	
AR Coating	
Coating Specification:	
S1: 266 & 532nm AR Coating S2: 266 & 532nm AR Coating	
Surface Quality:	
20-10	
Surface Flatness (P-V):	
λ/8 @ 633nm	
Damage Threshold, By Design: ☐	
5 J/cm² @532nm, 10ns, 10Hz 2.5 J/cm² @266nm, 10ns, 10Hz	
Threading & Mounting	
Mount:	
Unmounted	
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.