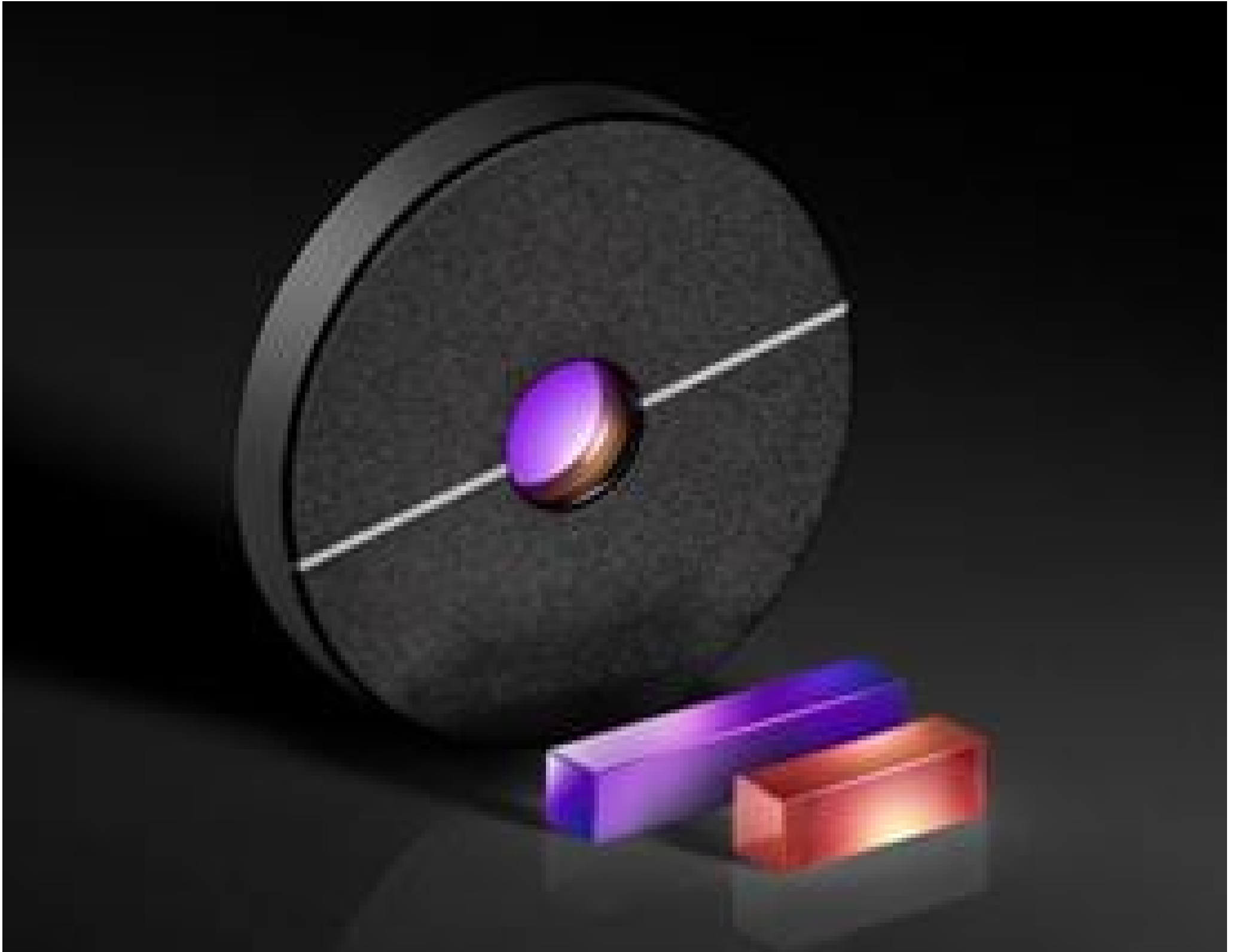


6 x 6 x 0.5mm, 515nm SHG, Type I BBO Nonlinear Crystal



Stock #24-201 **6 In Stock**

- 1 + MRP ₹78,057

● Price inclusive of all taxes

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Volume Pricing	
Qty 1-2	₹78,057 each
Qty 3+	₹68,499 each
Need More?	Request Quote

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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 x 6.0 +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/cm² @ 1064nm, 10ns

Damage Threshold, Pulsed:
>1 GW/cm² @ 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](#)

Country of Origin:
China

Imported By:
Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
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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.