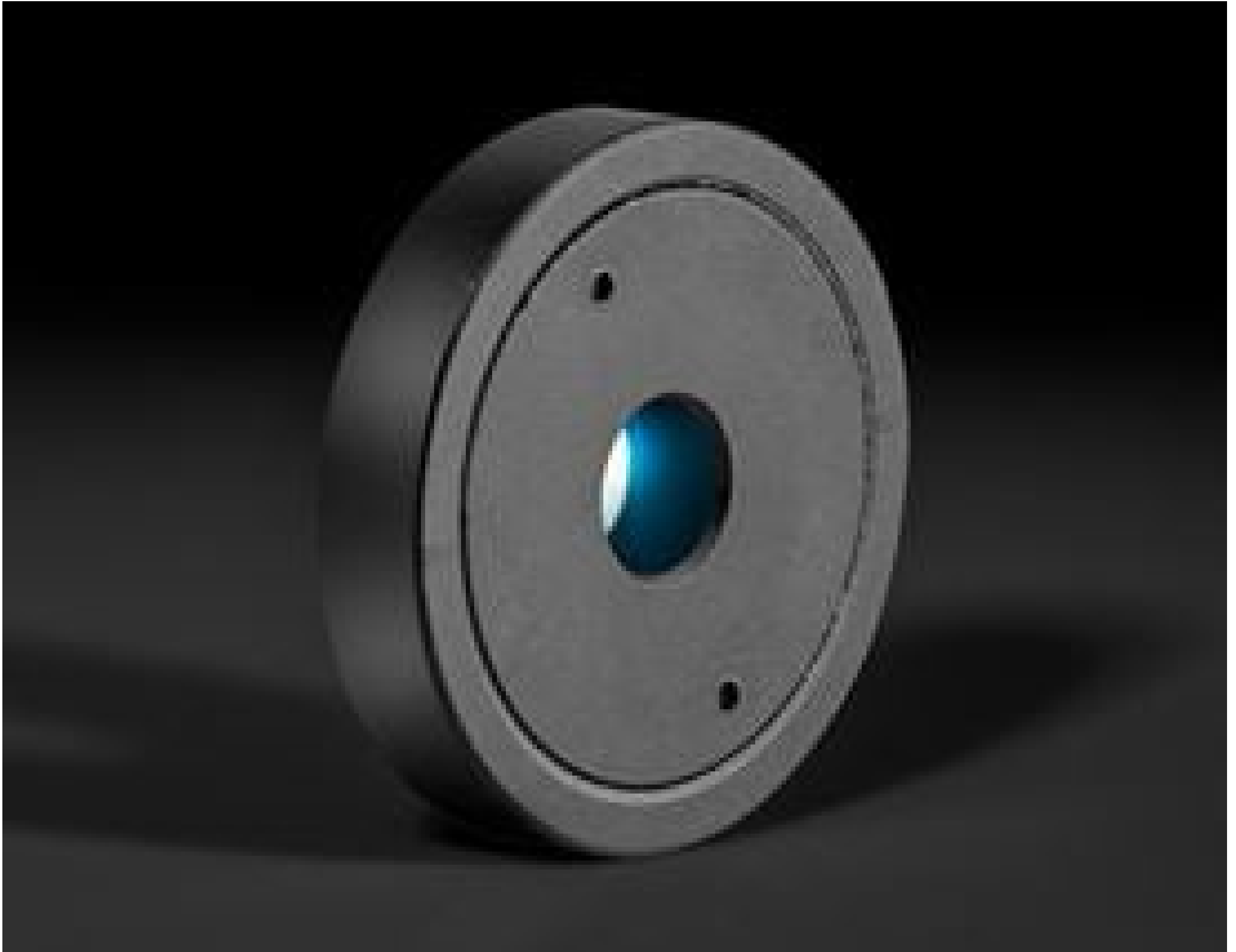


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## 6 x 6 x 0.5mm, 800nm THG, Type I BBO Nonlinear Crystal



Mounted Type I BBO Nonlinear Crystal

Stock #11-168 **2 In Stock**

1  MRP ₹68,499

 Price inclusive of all taxes

**ADD TO CART**

### Volume Pricing

Qty 1-2	₹68,499 each
Qty 3+	₹61,065 each
Need More?	<a href="#">Request Quote</a>

### Product Downloads

### General

Nonlinear Crystal **Type:**

THG @ 800nm, Type I **Typical Applications:**

**Note:**  
Mount is 25.4mm Dia., 6mm Thick Unthreaded  
Black Anodized Metal Mount (see drawing for more  
information)

**Crystal Type:**

BBO

**Protective Chamfer:**

<0.1mm x45°

### Physical & Mechanical Properties

**Dimensions (mm):**

6.0 x 6.0 +0.0/-0.1

**Thickness (mm):**

0.50 +0.0/-0.1

**Clear Aperture CA (mm):**

5.70

**Parallelism (arcsec):**

<20

**Perpendicularity (arcmin):**

<5

### Optical Properties

**Surface Quality:**

20-10

**Coating:**

AR Coating

**Design Wavelength DWL (nm):**

800

**Surface Flatness (P-V):**

$\lambda/8$

**Coating Specification:**

S1: 400 - 800nm Broadband Protective Coating  
S2: 266nm Protective Coating

**Damage Threshold, By Design:**

10 J/cm<sup>2</sup> @ 1064nm, 10ns, 10Hz

**Damage Threshold, Pulsed:**

10 J/cm<sup>2</sup> @ 1064nm, 10ns, 10Hz

**Orientation  $\Theta/\Phi$  (°):**

44.3/90

### 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:**

Lithuania

**Imported By:**

Edmund Optics India Private Limited  
267, Greystone Building, Second Floor,  
6th Cross Rd, Binnamangala,  
Stage 1, Indiranagar, Bengaluru,  
Karnataka, India 560038  
Phone: +91- 80-6845 0000

## 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/cm<sup>2</sup> @ 1064nm, 10ns, 10Hz
- Broad Transparency Range from the UV to the IR

Nonlinear Crystals of either  $\beta$ -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.