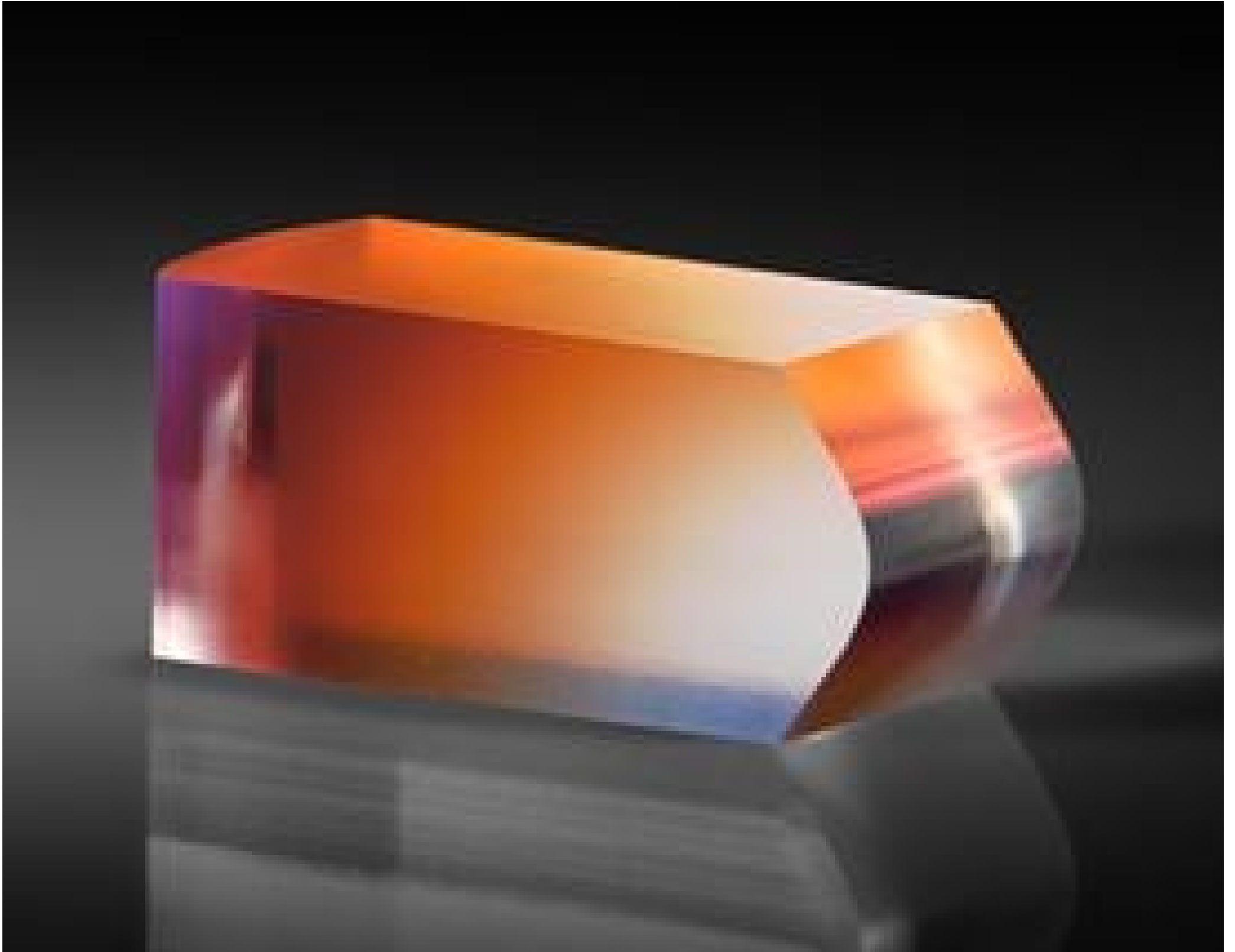


445nm Monolithic Collimator



Monolithic Collimator

Stock **#29-412** [CONTACT US](#)

⊖ 1 ⊕ C\$147⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-9	C\$147.00 each
Qty 10-25	C\$132.30 each
Qty 26-49	C\$124.60 each
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Product Downloads

Numerical Aperture (NA) Range:

0.50 (Fast Axis)
0.20 (Slow Axis)

General

Beam Shaping Lens **Type:**

Physical & Mechanical Properties

Clear Aperture CA (mm):

1.90 x 1.90

Dimensions (mm):

2.50 x 2.50 ±0.05

Thickness (mm):

5.78 ±0.05

Optical Properties

Effective Focal Length EFL (mm):

5.02

Substrate:

[S-BSL7](#)

Coating:

BBAR (400 - 700nm)

Wavelength Range (nm):

400 - 700

Back Focal Length BFL (mm):

1.19

Design Wavelength DWL (nm):

445

Index of Refraction (n_d):

1.526

Divergence $1/e^2$ (mrad):

1.6 (Fast Axis, Typical)
7.0 (Slow Axis, Typical)

Regulatory Compliance

Certificate of Conformance:

[View](#)

Product Details

- Simultaneously Collimate Light from Laser Diode Fast and Slow Axes
- Circularize Elliptical Output from Common Blue Laser Diodes
- Ideal for Light Collimation of Single Emitters in the Blue Spectrum

Monolithic Collimators feature a solid glass construction with two orthogonal cylindrical surfaces. The different focal lengths, optimized for numerical apertures of 0.5 and 0.2, simultaneously collimate light from the fast and slow axes of common single emitters. These collimators are capable of producing a symmetrical beam with a nearly round far-field profile. Monolithic Collimators are AR coated to provide high transmission across visible wavelengths and are ideal for beam shaping or laser diode collimation, particularly of blue TO-can diodes with wavelengths of 405nm, 445nm, 447nm, and 450nm.