

[See all 6 Products in Family](#)

**TECHSPEC® 4.22X Magnification, NIR I Coated, Mounted Anamorphic Prism Pair**



#47-274 4.22X Magnification, NIR I Coated, Mounted Anamorphic Prism Pair

Stock **#47-274 1 In Stock**

⊖ 1 ⊕ ₹43,020

**ADD TO CART**

Volume Pricing	
Qty 1-5	₹43,020 each
Qty 6-25	₹38,790 each
Qty 26-49	₹34,470 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

Beam Shaping **Type:**

**Physical & Mechanical Properties**

**Dimensional Tolerance (mm):**  
+0.00/-0.10

**Optical Properties**

NIR I (600-1050nm) **Coating:**

830 **Design Wavelength DWL (nm):**

**N-SF11** **Substrate:**

4.22X **Magnification:**

20-10 **Surface Quality:**

3 **Angle Tolerance (arcmin):**

**Coating Specification:**  
 $R_{avg} \leq 0.5\% @ 600 - 1050nm$

**Damage Threshold, By Design:**   
7 J/cm<sup>2</sup> @ 1064nm, 10ns

3.00 **Power (fringes) @ 632.8nm:**

1.00 **Irregularity (fringes) @ 632.8nm:**

## Threading & Mounting

Mounted (Fixed Magnification) **Mount:**

## Regulatory Compliance

[View](#) **Certificate of Conformance:**

United States **Country of Origin:**

Edmund Optics India Private Limited **Imported By:**

## Product Details

- Converts Elliptical Beam to Circular
- Anti-Reflection Coated for Common Diode Wavelengths
- Mounted and Unmounted Versions Available

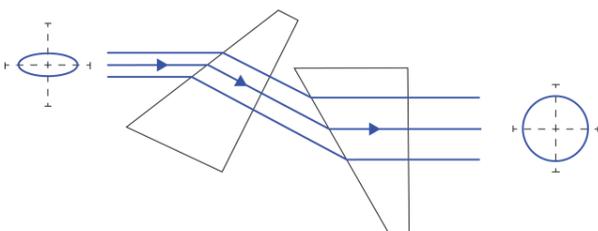
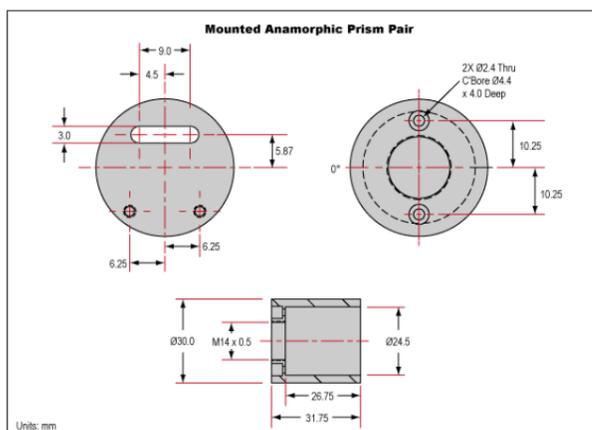
An anamorphic prism pair is used to expand a laser beam in one dimension. This makes it ideal for converting the elliptical beam shape of laser diodes into a nearly circular one. Mounting our unmounted anamorphic prism pair in the proper orientation will provide magnification ratios from 2:1 - 6:1. Designed at 650nm and broadband anti-reflection (BBAR) coated for 600 – 1050nm, it provides excellent performance at both 635nm and 670nm.

The center of the output beam is displaced 5.9mm from center of the input beam in our mounted anamorphic prism pair. The Dovetail Accessory Mount allows it to rotate with respect to the laser, simplifying bench-top mounting. The C-Accessory Mount allows our full line of [C-Mount components](#) to be used in conjunction with the mounted anamorphic prism pair.

**LASER OPTICS** MADE BY EDMUND OPTICS®

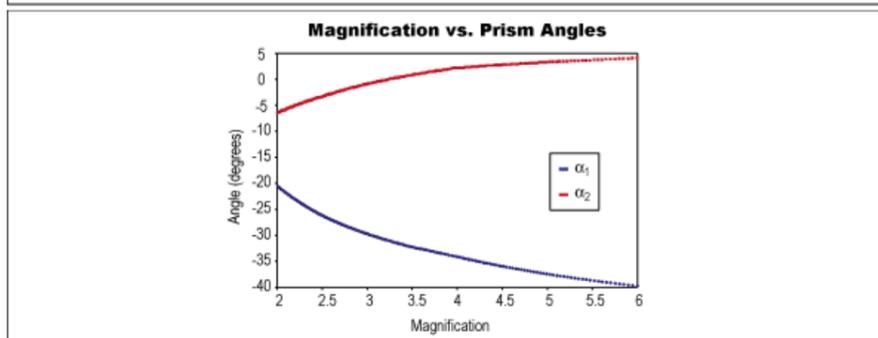
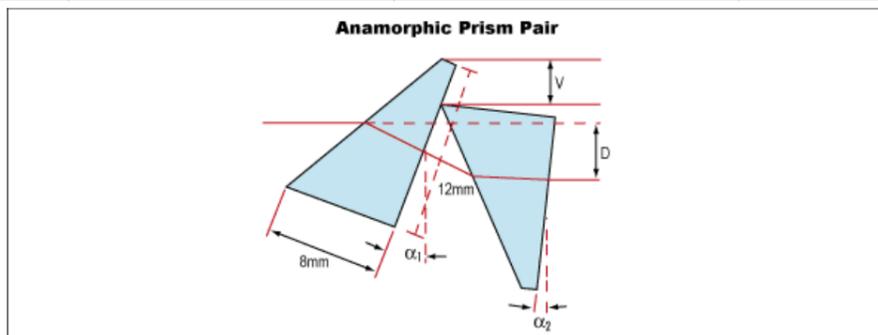
[LEARN MORE](#)

## Technical Information



Typical Values

Magnification	$\alpha_1$	$\alpha_2$	Vertical Separation (V)	Beam Displacement (D)
2X	-20.6°	-6.5°	1.75mm	4.50mm
3X	-29.7°	-0.9°	2.56mm	5.45mm
4X	-34.1°	2.1°	3.01mm	5.74mm
5X	-37.4°	3.2°	3.33mm	6.15mm
6X	-39.7°	4.0°	3.51mm	6.42mm



### Beam Expander Mounting Configurations.

Click on an item below to be brought to that item's product page.

