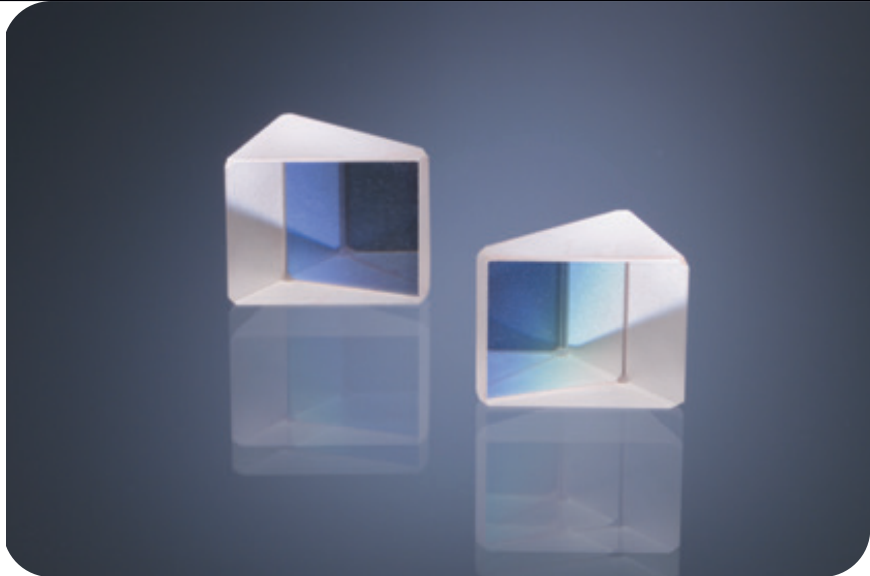


Anamorphic Prism Pair

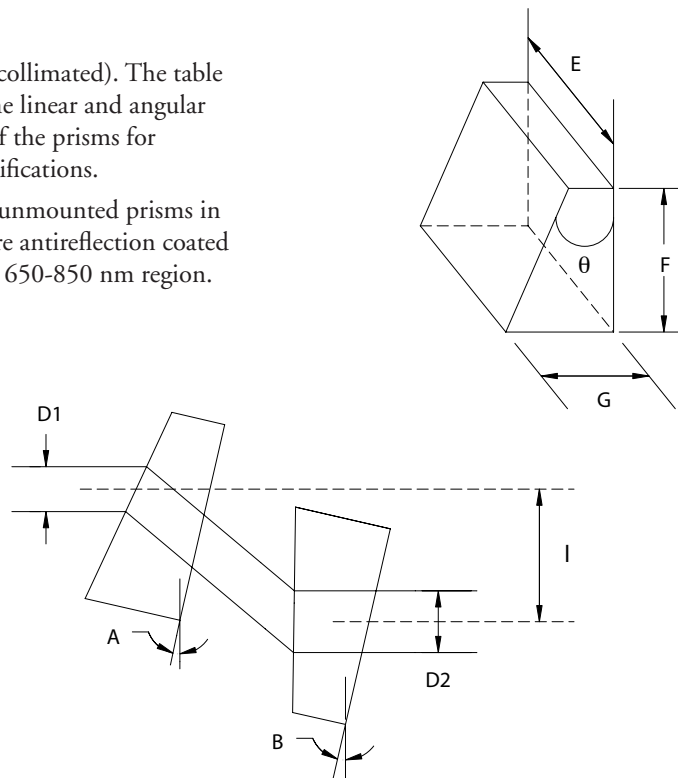
- **Correction of beam asymmetry**
- **Optimized for 650-850 nm**



Anamorphic Prism Pairs are used mainly to correct the asymmetric beam shape of a Laser Diode – from elliptical to near circular shape. This is done by expanding (or contracting) the beam in one direction only while the other direction remains unchanged. The aspect ratio of the elliptical beam varies according to the laser diode. Magnification is controlled by the angular position of the prisms relative to the incident beam (which has

already been collimated). The table shown lists the linear and angular dimensions of the prisms for various magnifications.

Ealing offers unmounted prisms in pairs. They are antireflection coated for use in the 650-850 nm region.



Specifications

Material: SF11 glass
θ: 29.45°
Size: 12 x 12 x 8.5 mm
Dimension Tolerance: +0/-0.254 mm
Angle Tolerance: <3 arcmin
Surface Quality: 40-20
Flatness: λ/10
Clear Aperture: >80% of central dim.
Chamfer: 0.3 mm x 45°

Anamorphic Prism Pair

Catalog Number	Price US
24-9078	\$125.00

Magnification (X)	Prism angles		Displacement (mm)
	A (Deg)	B (Deg)	
2.0	21.2	-6.0	5.2
3.0	30.4	-0.1	6.3
4.0	35.2	+2.5	7.0
5.0	38.2	+3.9	7.4
6.0	40.4	+4.8	7.7

Optics

Lenses

Mirrors & Beamsplitters

Prisms & Polarizers

Filters

Pinholes

Opto-mechanics

Breadboards & Rails

Mounting Hardware

Mirror & Component Mounts

Manual Micro Positioners

Motorized Positioners