

Spherical Lenses

Cylindrical Lenses

Lens Kits

Achromatic Doublets

Multi-Element

Micro Optics

Mirrors

Prisms

Substrates & Windows

Beamsplitters

Polarizers

Filter & Apertures

Dichroic Polarizers

- Plastic sheet polarizers are convenient and useful for multiple purposes
- Available with glass cover plates and mounting ring for rigidity and protection
- Unmounted versions available up to 100mm in diameter
- Single sheet transmission of 36%
- Extinction ratio of 1×10^{-4} for high contrast applications



Dichroic polarizing filters would seem to be mis-named since dichroic literally means 'having two colors'. The name is a hold over from several decades ago when sheet polarizers were often used in combination with a full wave plate to produce a very eye-sensitive magenta (i.e., red combined with blue) analyzer for stress, hence the name.

These are sheets of dichroic plastic material which provide a reasonable degree of polarization at an economical price. They are laminated between two thin sheets of glass for rigidity and mounted in a metal ring for ease of use and handling. The optic axis is marked.

These are broadband devices operating over a range of 380-750nm, and 760-2000nm.

We also offer economical unmounted sheets of this material which are neither sandwiched between glass covers nor mounted in the aluminum ring around the outside. The unmounted material has a slight tendency to curl in one direction.

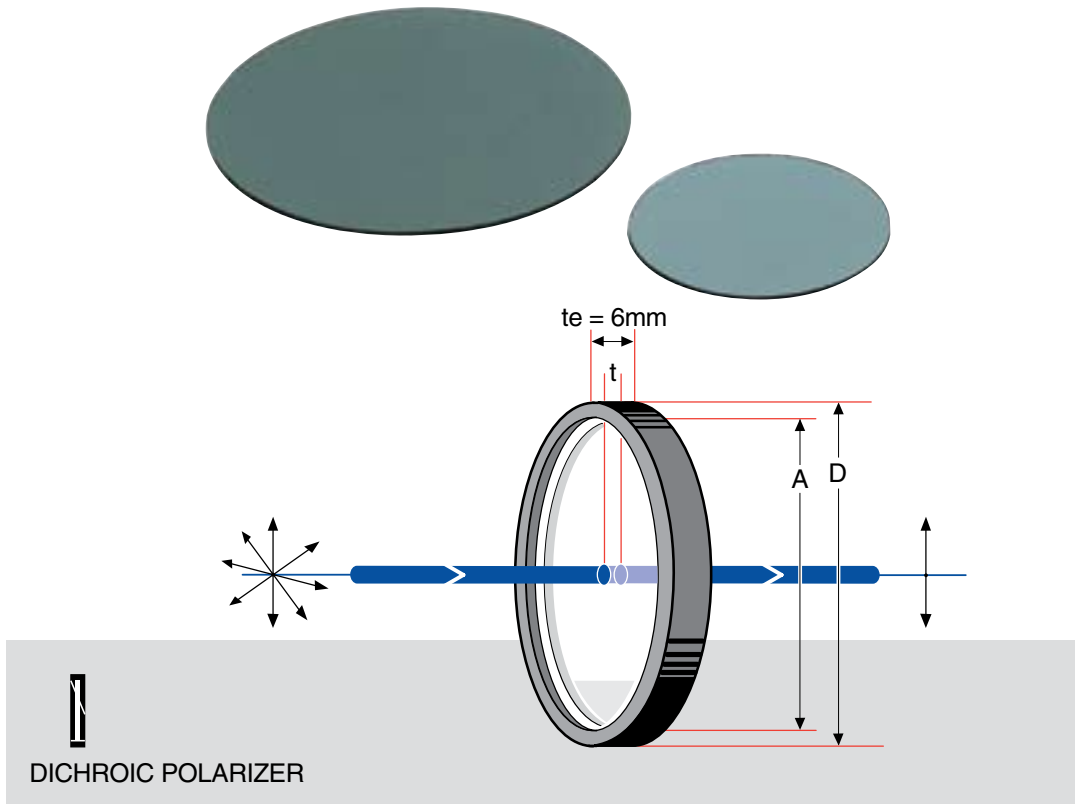
Specifications & Tolerances

Dimensions: $\pm 0.2\text{mm}$
 Extinction ratio: 1×10^{-4}
 Transmittance @550nm: 36% (single sheet)
 26% (two open sheets)

Material: Dichroic plastic
 Temperature range: -30 to $+80^\circ\text{C}$
 Coating: Broadband Anti-Reflection

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Dichroic Polarizers

Diameter, D (mm)	Aperture, A (mm)	Thickness, t (mm)	Wavelength Range (nm)	Glass/Metal Mount	Price	PART NUMBER
25.4	24.0	0.75	400-700	No		069-1105
30.0	28.0	0.75	400-700	No		069-1110
50.0	47.0	0.75	400-700	No		069-1120
100.0	94.0	0.75	400-700	No		069-1130
30.0	24.0	3.00	400-700	Yes		069-0110
50.0	44.0	3.00	400-700	Yes		069-0120
30.0	24.0	3.00	760-2000	Yes		069-0140



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Most of our polarizers are available from stock and can be shipped to you the same day that your order is placed.

