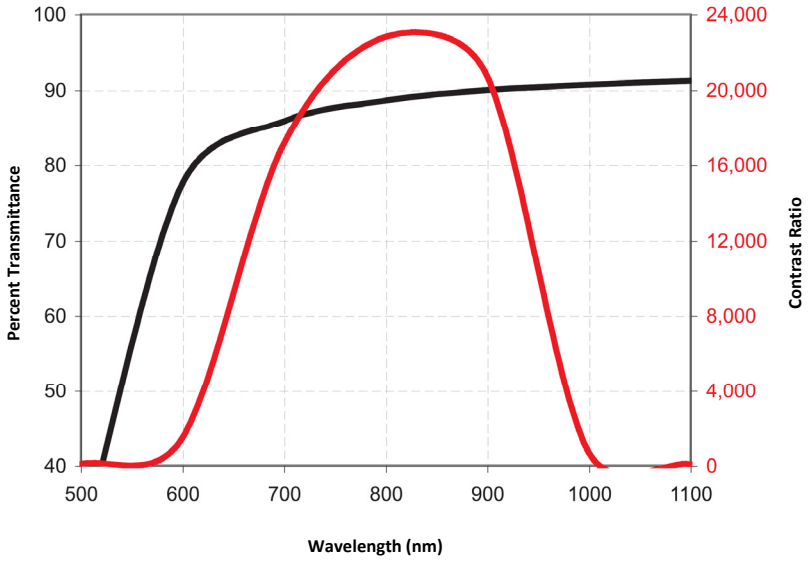
High Contrast Linear Polarizer

In response to the need for improved contrast in the near infrared region, Meadowlark Optics now offers a line of High Contrast Linear Polarizers. These polarizers are constructed by laminating Polarcor™ dichroic glass polarizers between high quality glass substrates to achieve improved wavefront performance and surface quality.

Meadowlark Optics High Contrast Linear Polarizers offer the performance of calcite polarizers in large apertures. Contrast ratios are available as high as 10,000:1. Custom wavelength ranges from 630 to 1580 nm with 60 to 80 nm bandpasses and sizes from 10 to 25 mm are available.

Please contact a Meadowlark Optics Sales Engineer to discuss your specific application.

Typical transmission for a High Contrast Linear Polarizer centered at 800 nm



Extinction ratio is measured with a Glan-Thompson polarizer.



Key Features

- Very high contrast
- High transmission
- Absorptive dichroic glass

Polarization Suite

Linear Polarizers

Precision Linear Polarizer
High Contrast Linear Polarizer
Ultra-High Contrast Linear Polarizer
Glan-Thompson Polarizer
Ultra Broadband Polarizer
MWIR Polarizer
Deep Ultraviolet Polarizer

Beamsplitting Polarizers

Versalight Polarizer
Wire Grid Beam Splitter
Laser Line Beamsplitting Polarizer
Broadband Beamsplitting Polarizer
Polarizing Bandpass Filter

Circular Polarizers

Dichroic Circular Polarizer
Beam Separator

SPECIFICATIONS	
Polarizer Material	Dichroic Glass
Substrate Material	BK 7 Grade A, fine annealed
Transmitt ed Wavefront Distortion (at 632.8 nm)	≤ λ/4
Surface Quality	40 – 20 scratch-dig
Beam Deviation	≤ 3 arc min
Reflectance (per surface)	≤ 0.5% at normal incidence
Temperature Range	-50˚C to +70˚C
Recommended Safe Operating Limit	1 W/cm^2 , CW 200 mJ/cm^2 , 20 ns, visible 2 J/cm^2 , 20 ns, 1064 nm

Prolonged exposure to strong ultraviolet radiation may damage these polarizers.

ORDERING INFORMATION				
Diameter in. (mm)	***Clear Aperture in. (mm)***	***Thickness in. (mm)***	***Wavelength Range***	***Part Number***
1.00 (25.4 mm)	0.40 (10.16 mm)	0.25 (6.35 mm)	Please specify	PPM – 050 – λ
1.00 (25.4 mm)	0.70 (17.78 mm)	0.35 (8.89 mm)	Please specify	PPM – 100 – λ

Custom sizes are available. Please contact your Meadowlark Optics sales engineer for assistance.

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