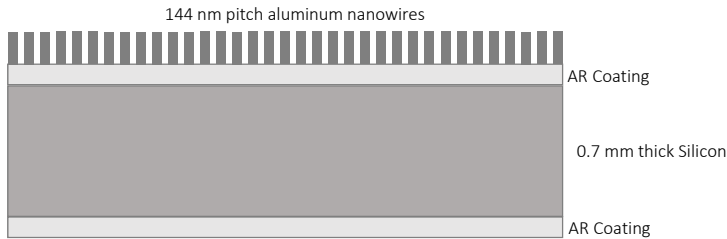


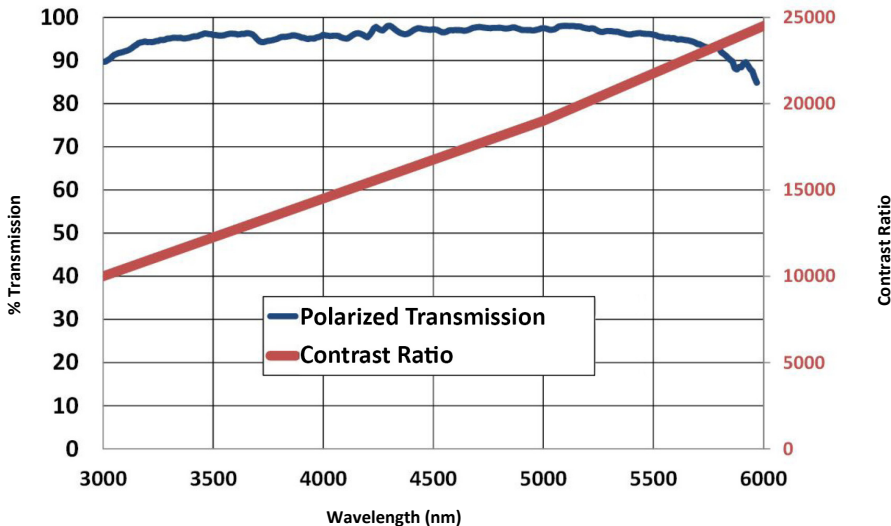
MWIR Polarizer

This polarizer is a wire grid on an antireflection coated silicon substrate optimized for 3 to 6 microns. The ring mounting provides for ease of handling and has the polarization transmission direction marked. The wire grid surface is quite delicate and should only be cleaned non-mechanically. Standard outer diameters are one and two inch but custom sizes, shapes and unmounted polarizers are also available.

Cross section of MWIR Polarizer



Transmission and Contrast vs. Wavelength



Typical measured contrast ratio (red) and transmission (blue) over relevant wavelength range.



Key Features

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Excellent contrast ratio

Thin profile

High transmission

Custom apertures > 2 inches available

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

Wire Grid Versalight Polarizer

Wire Grid Versalight Beam Splitter

Laser Line Beamsplitting Polarizer

Broadband Beamsplitting Polarizer

Polarizing Bandpass Filter

Circular Polarizers

Dichroic Circular Polarizer

Beam Separator



SPECIFICATIONS

Substrate Material	Silicon, 0.7 mm thick
Coating	Double side AR
Wavelength Range	3 μm to 6 μm
Contrast Ratio	See graph
Acceptance Angle	$\leq 20^\circ$
Transmitted Wavefront Distortion (per inch)	$\leq 1.5\lambda$ (P-V at 4 μm) $\leq \lambda/3$ (RMS at 4 μm)
Beam Deviation	≤ 2 arc min
Maximum Aperture	Up to 4 inches circular
Surface Quality	80 – 50 scratch-dig

ORDERING INFORMATION

<i>Diameter in. (mm)</i>	<i>Clear Aperture in. (mm)</i>	<i>Thickness in. (mm)</i>	<i>Mounted Part Number</i>
$\varnothing 1.00$ (25.4 mm)	$\varnothing 0.76$ (19.3 mm)	0.182 (4.62 mm)	MPM – 100
$\varnothing 2.00$ (50.8 mm)	$\varnothing 1.76$ (44.7 mm)	0.182 (4.62 mm)	MPM – 200