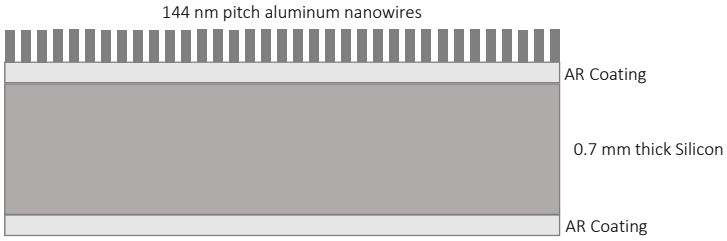
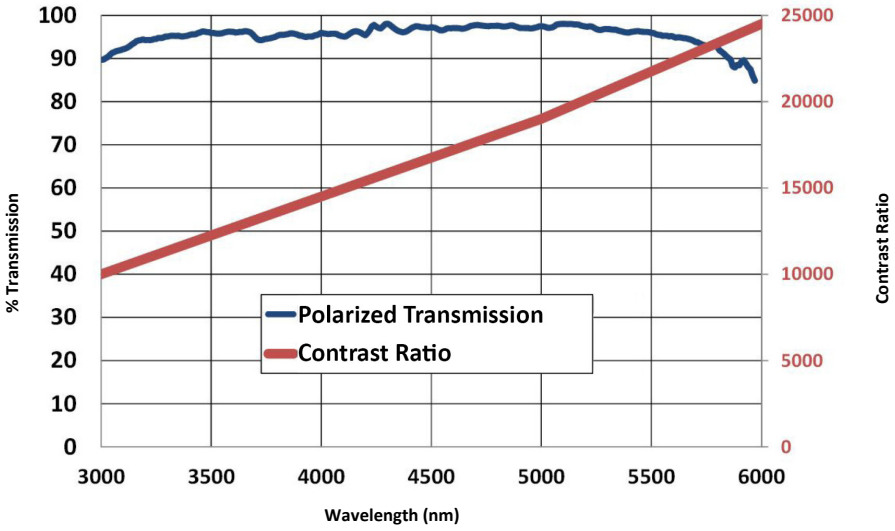
MWIR Polarizer

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

- 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	≤ 20˚
Transmitted Wavefront Distortion (per inch)	≤ 1.5λ (P-V at 4µm) ≤ λ/3 (RMS at 4µm)
Beam Deviation	≤ 2 arc min
Maximum Aperture	Up to 4 inches circular
Surface Quality	80 – 50 scratch-dig

ORDERING INFORMATION			
Diameter in. (mm)	***Clear Aperture in. (mm)***	***Thickness in. (mm)***	***Mounted Part Number***
Ø1.00 (25.4 mm)	Ø0.76 (19.3 mm)	0.182 (4.62 mm)	MPM – 100
Ø2.00 (50.8 mm)	Ø1.76 (44.7 mm)	0.182 (4.62 mm)	MPM – 200

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