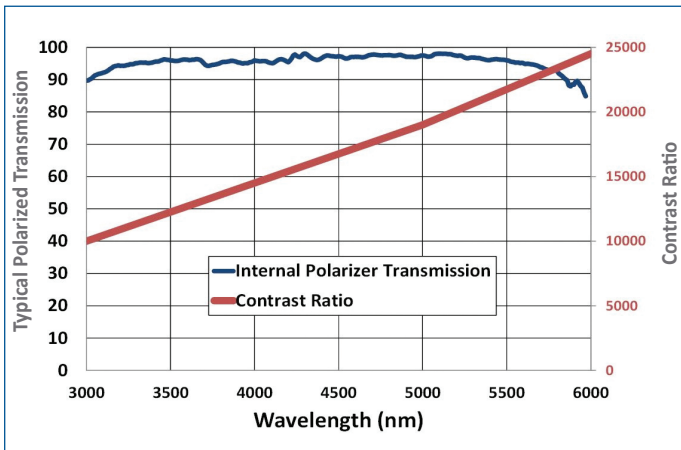


## MWIR POLARIZER

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.



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

SPECIFICATIONS	
Substrate Material	Silicon, 0.7 mm Thick
Coating	Double side AR
Wavelength Range	3 $\mu\text{m}$ to 6 $\mu\text{m}$
Contrast Ratio	See graph
Acceptance Angle	$\leq 20^\circ$
Transmitted Wavefront Distortion (per inch)	$\leq 1.5 \lambda$ (P - V at 4 $\mu\text{m}$ ) [ $\leq \lambda/3$ (RMS at 4 $\mu\text{m}$ )]
Beam Deviation	$\leq 2$ arc min
Maximum aperture	Up to 4 in. circular
Surface Quality	80-50 scratch-dig

ORDERING INFORMATION			
<i>Diameter</i>	<i>Clear Aperture</i>	<i>Thickness</i>	<i>Mounted Part Number</i>
$\phi 1.00$ in. [25.4 mm]	$\phi 0.76$ in. [19.3 mm]	0.182 in. [4.62 mm]	MPM-100
$\phi 2.00$ in. [50.8 mm]	$\phi 1.76$ in. [44.7 mm]	0.182 in. [4.62 mm]	MPM-200

