

Polarizing Bandpass Filters

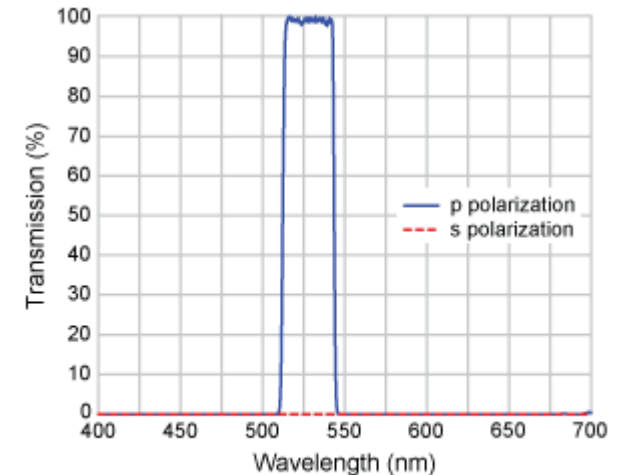
Semrock launches a unique and patent-pending family of filters for laser applications. The “polarizing bandpass filter” combine a highly efficient polarizer with high-performance bandpass characteristics in a single optical component.

These new and highly innovative filters make an excellent laser source clean-up filters (eliminating undesired polarization and light noise away from the laser wavelength) as well as detection filters to pass a laser wavelength range and block background noise.

Key product highlights include:

- Contrast ratio > 1,000,000:1 (extinction ratio < 10^{-6})
- High transmission (> 95%) within optimized passband (for p-polarized light)
- Blocking > O.D. 6 for s-polarized light within the passband
- Imaging optical quality – low scatter, wavefront distortion, and beam deviation
- Hard-coating reliability and high laser damage threshold (1 J/cm^2)
- Large clear aperture coupled with 90° beamsplitter functionality
- Excellent out-of-band blocking
- Five Year Warranty

Read more at www.optonyx.com or contact us at info@optonyx.com or phone +46 8 55 11 14 10.



Highlights of the 532 nm filter:

Passband width of about 30 nm and an angular acceptance range of $45 \pm 7^\circ$ at 532 nm.

Blocking > O.D. 6 for both polarizations in the visible wavelength range outside the passband.

Blocking > O.D. 2 from UV all the way up to 1100 nm (Si-detector).