

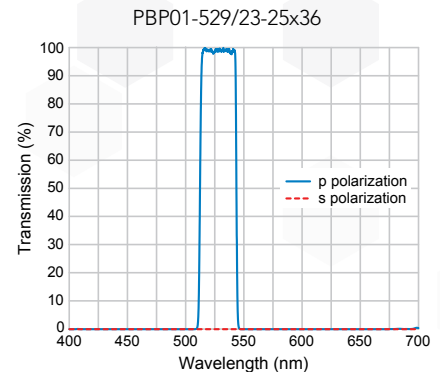
Polarization Filters



Unique to Semrock, these filters combine a highly efficient polarizer and a bandpass filter in a single optical component! These patented filters are superb linear polarizers with a contrast ratio exceeding 1,000,000-to-1. In addition, with high-performance bandpass characteristics (including high transmission and steep edges), they make an excellent laser source clean-up filter (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. U.S. Patent No. 8,879,150.

Semrock's polarizing bandpass filters are ideal for a wide variety of laboratory laser applications, especially those involving holographic and interferometric systems, as well as fluorescence polarization assays and imaging, second-harmonic-generation imaging, polarization diversity detection in communications and range finding, laser materials processing, and laser intensity control.

- › Contrast ratio > 1,000,000:1
- › High transmission (> 95%) within optimized passband (for p-polarized light)
- › Superior optical quality – low scatter, wavefront distortion, and beam deviation
- › Hard-coating reliability and high laser damage threshold (1 J/cm²)
- › Naturally offers large aperture sizes and 90° beamsplitter functionality
- › 25 mm and 25.2 x 35.6 mm filter sizes available



These unique polarizing bandpass filters offer a superb linear polarizer and optimized bandpass filter in a single optical component.


Nominal Laser Wavelength	Wavelength Range for AOI = 45° ± 0.5°	AOI Range for Nominal Laser Wavelength	OD 2 Average Polarization Blocking Range ⁽¹⁾	Average OD 6 s-pol Blocking Range	Average OD 6 p-pol Blocking Range	Prefix Part Number	25x36 mm Price	25 mm Price
355 nm	346 – 361 nm	38° – 52°	434 – 1100 nm	300 – 455 nm	300 – 339 nm 369 – 434 nm	PBP01-353/15-	\$845	\$625
405 nm	400 – 410 nm	41° – 51°	300 – 332 nm 490 – 1100 nm	320 – 516 nm	332 – 388 nm 422 – 490 nm	PBP01-405/10-	\$845	\$625
532 nm	518 – 541 nm	38° – 52°	300 – 418 nm 664 – 1100 nm	400 – 695 nm	418 – 502 nm 557 – 664 nm	PBP01-529/23-	\$845	\$625
640 nm	628.5 – 650 nm	40.5° – 51°	300 – 511 nm 795 – 1100 nm	488 – 840 nm	511 – 602 nm 675 – 795 nm	PBP01-639/21-	\$845	\$625
1064 nm	1038 – 1081 nm	39° – 51°	300 – 851 nm 1307 – 1750 nm	720 – 1393 nm	851 – 996 nm 1120 – 1307 nm	PBP01-1059/43-	\$945	\$715

⁽¹⁾ OD 2.5 Average for PBP01-1059/43 filter

Example Part Numbers: PBP01-529/23-25x36 or PBP01-529/23-25-D



See spectra graphs and ASCII data for these filter sets at www.semrock.com

Beamsplitter Mount	Part Number	Price
 <p>Designed for single, 25.2 x 35.6 x 1.0 to 2.0 mm beamsplitters in laboratory bench-top set ups.</p>	BSM	\$325



When ordering a Polarizing Bandpass filter installed in a Beamsplitter Mount, please specify whether you are using the filter as a polarizer or an analyzer for proper orientation during assembly.



Downloadable assembly and mechanical drawings of the mount are available at www.semrock.com