

FastPulse Technology, Inc.

LASERMETRICS® DIVISION

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BP Series BREWSTER ANGLE PLATE POLARIZER

- Rugged, Stable Construction
- Highest power handling.
- Low Insertion Loss : $T_p \geq 97\%$
- High Extinction: 37-45dB (>5000:1)
- Low Back Scatter Reflections: <50dB
- Large apertures: 5 & 10 mm
- Low beam deviation.

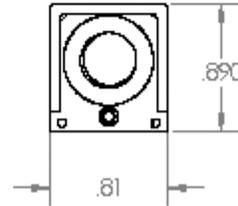
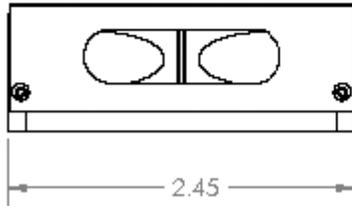
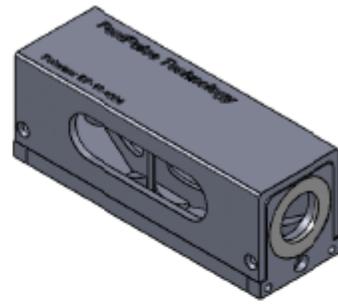
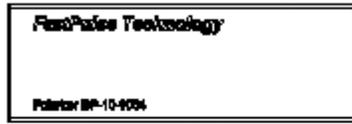


Plate polarizers with coatings provide very high extinction from single and double plate designs. BP Series standard polarizers incorporate 2 plates angled at 65° and mounted in a "V" orientation so there is no beam offset. Precision mounting methods insure stress free high performance.

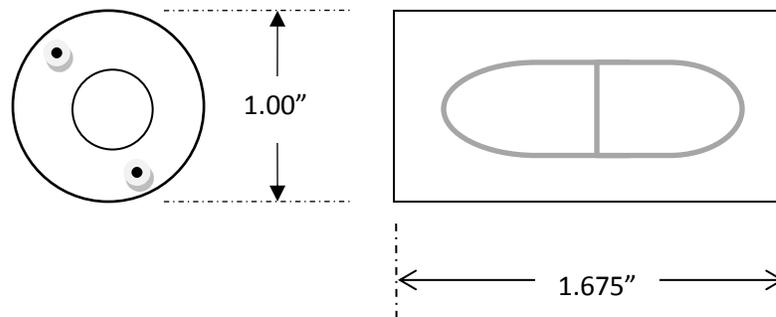
Brewster type polarizers offer several advantages over crystal or cemented cube polarizers. Advantages include highest power handling capability and wave front quality; low cost, low beam deviation and low temporal dispersion; unique, large apertures are possible. The main disadvantage of the "V" double plate assembly is overall length of the "V" configuration needed to cancel beam displacement. Extinction values typically exceed 37 dB (5,000:1) at the center wavelength. Materials used have been selected for lowest absorption and scatter. Custom wavelengths and unmounted polarizers are quoted and built to order. FastPulse Technology also offers competitive Optical Isolators and Pockels cells.

Wavelength (Select 1064nm, 1030nm or 532nm)	Aperture = 5mm	Aperture = 10mm
Part Number BP- Aperture - λ)	BP-5 - λ	BP-10 - λ
Clear Aperture	5 mm	10 mm
Bandwidth	+/-4nm	+/-4nm
Input Power, max.	30W	30W
Extinction	37-42 dB	37-45 dB
Transmission ($T_p >97\%$)	97%	97%
Backscatter Reflection	<50 dB	<50 dB
Beam Deviation	<30 arcsec	<30 arcsec

These polarizers are also incorporated into our 2135 series and other optical isolator models.



SERIES BP-10 10 mm Aperture Polarizers



SERIES BP-5 5mm Aperture Polarizers: for use with RTP & BBO Small aperture Pockels cells.