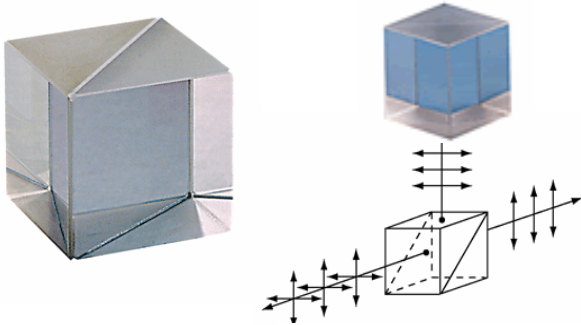


Laser Line Polarization Beam Splitters

- Cube Design
- Efficient Narrowband Polarization
- Available for 10 common laser wavelengths



FEATURES

General purpose for laser-wavelength beams splitting to different polarization states, or used as polarization beam combiner

APPLICATIONS

Used in pulsed laser systems
Purifying polarization in multimode, high-power lasers

GENERAL SPECIFICATIONS:

Substrate Material: BK 7, grade A, fine annealed optical glass
Wavefront Distortion: $\leq \lambda/4$ at 632.8 nm over the clear aperture
Clear Aperture: Central diameter, >80% of dimension
Surface Quality: 40 – 20 scratch and dig
Parallelism: < 1'
Efficiency: Tp >95.2%, Rs >99.6%
Input/Output Surface Coating: Anti-reflection multilayer coating, R <0.25% per surface
Extinction Ratio: Tp/Ts >1,000:1
Damage Threshold: 2 kW/cm² CW, 1 J/cm² with 10 nsec pulses at 10 Hz

Dimension:
 (shown as "X" inside P/N)
 (*Dimension Tolerance: -0.05, +0.05mm typ.*)

10.0: 10.0 x 10.0 x 10.0mm	12.7: 12.7 x 12.7 x 12.7mm
20.0: 20.0 x 20.0 x 20.0mm	25.4: 25.4 x 25.4 x 25.4mm
50.0: 50.0 x 50.0 x 50.0mm	50.8: 50.8 x 50.8 x 50.8mm

or other sizes upon request

Optical Coating:
 (shown as "W" inside P/N)

PBS dielectric coating(polarized)

W1: 441 ~ 458nm	W2: 488 ~ 514.5nm
W3: 532nm	W4: 632.8nm
W5: 670nm	W6: 780nm
W7: 830nm	W8: 1064nm
W9: 1300nm	W10: 1550nm

Package:
 (shown as "Mounting Type" inside P/N)

NM: Un-mounted, typical.
M: Mounted: upon request

Ordering Information:

P/L-PBS - <X> - <W> - <Mounting Type>

Photonik reserves the rights to change product designs and specifications at any time without notice.

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