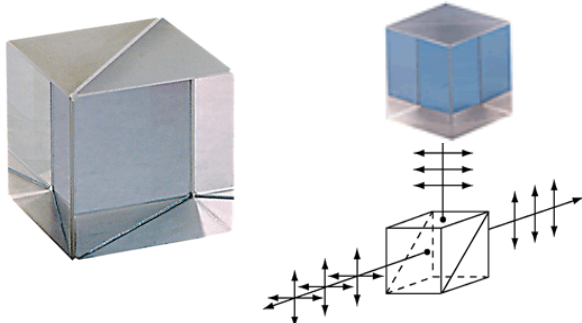


Laser Line Polarization BeamSplitters

- 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:

10.0: 10.0 x 10.0 x 10.0mm

12.7: 12.7 x 12.7 x 12.7mm

(shown as "X" inside P/N)

20.0: 20.0 x 20.0 x 20.0mm

25.4: 25.4 x 25.4 x 25.4mm

(*Dimension Tolerance: -0.05, +0.05mm typ.*)

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:

PBS dielectric coating(polarized)

(shown as "W" inside P/N)

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:

NM: Un-mounted, typical.

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

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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