

# Micro PBS

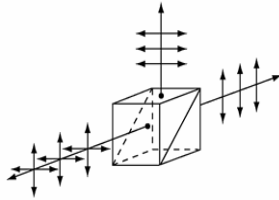
Small Size Polarization Beamsplitter Cube



Micro PBS separates a laser beams into two different polarization beams. The micro PBS is generally used in miniaturized laser systems and fiber optic communication modules as the core part of polarizer, polarization beam combiner/splitter, interleaver etc.,

### Features:

- Low Polarization Dependent Loss
- Low Insertion Loss
- Low PMD
- Environmentally Stable



### Applications:

- Polarization Beam Splitter/Combiner
- Raman Amplifier
- Circulator
- Interleaver

### General Specifications:

- Material: BK7 grade A, optical glass; Others upon custom design for special applications;
- Tolerance of Dimension:  $\pm 0.1\text{mm}$
- Flatness:  $\lambda/4 @ 633\text{nm}$  standard per 25mm; or  $\lambda/10 @ 633\text{nm}$  per request;
- Extinction Ratio(ER):  $> 100: 1$  typ. Optional for ER  $> 1000:1$
- Beam Deviation:  $< 3$  arc minutes typ.; Others per special request;
- Principle Transmission:  $T_p > 98\%$  and  $T_s < 0.5\%$
- Principle Reflection:  $R_s > 99.5\%$  and  $R_p < 2\%$
- Coating: Polarization beamsplitter coating on hypotenuse surface; AR coating ( $R < 0.25\%$ ;  $0^\circ$  AOI) on all input/output surfaces;
- Standard Coating Types(at  $0^\circ$  AOI):
- Narrow Band (nm):  $400 \pm 20$ ;  $500 \pm 20$ ;  $630 \pm 20$ ;  $800 \pm 20$ ;  $980 \pm 20$ ;  $1310 \pm 20$ ;  $1480 \pm 20$ ;
- Broadband(nm):  $400-700$ ;  $600-900$ ;  $900-1100$ ;  $1200-1500$ ;  $1500-1610$ .

### Standard Dimensions:

| Dimension       | Ordering Code         |
|-----------------|-----------------------|
| 3.2 x 3.2 x 3.2 | PBS0101-3.2-(Coating) |
| 4.0 x 4.0 x 4.0 | PBS0101-4.0-(Coating) |
| 5.0 x 5.0 x 5.0 | PBS0101-5.0-(Coating) |
| 6.0 x 6.0 x 6.0 | PBS0101-6.0-(Coating) |

- PBS with size 200 x 200 x 200 is available. Call us!
- Non-polarization beam-splitter(NPBS) with 200 x 200 x 200 is available. Call us!

### Ordering Information:

Specify the Ordering Code when placement of orders;

### Example:

#### PBS0101-4.0-(630± 20):

Micro PBS cube with 4.0x4.0x4.0mm, 630± 20nm narrow band coating.

#### PBS0101-6.0-(1500-1610):

Micro PBS cube with 6.0x6.0x6.0mm, 1500-1610nm broadband coating.

### Contact Information:

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