

Optical Component Catalog

OEM and Prototype Manufacturing

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Waveplates

- Crystal Quartz
- Mica

Windows

- Parallel
- Wedged
- Square / Rectangular

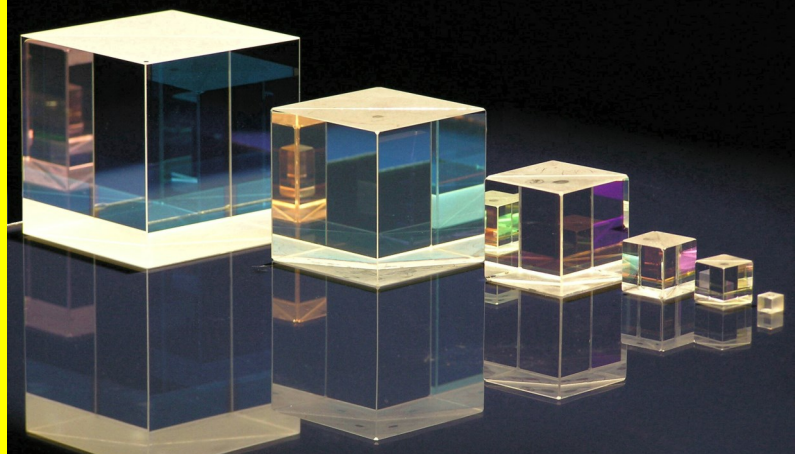


Mirrors

- Dielectric
- Metal
- Plano
- Spherical

Lenses

Prisms



Beamsplitters

- Cube
- Plate

Polarizers

- Cube
- Plate



Welcome to OptiSource, LLC

A letter from our GM

We appreciate the opportunity to showcase our products for you and look forward to providing the solution to your component needs.

After familiarizing yourself with our services and product offerings, we hope your next step will be to place an order with our company. We believe you will become another of a growing number of satisfied customers partnering with OptiSource, LLC, currently in our second decade of operations.

OptiSource, LLC is a small manufacturer of prototype and OEM quantities of optical components. Because of our size, we are able to incorporate many of the advantages and amenities associated with a larger company (i.e. a wide array of in-stock inventory) without the downside of dealing with the bureaucracies inherent in big companies.

The OptiSource staff is knowledgeable—150+ years of experience in all facets of sales, coating, fabrication and assembly of precision optical components.

Our smaller size affords us the advantage of maintaining a low overhead. Low overhead plus a skilled staff that multi-tasks, equals significant cost savings that we pass along to our customers.

We have developed a level of flexibility in our manufacturing environment not usually found in a larger company. This flexibility allows our manufacturing team to respond to your individual needs more effectively while still maintaining our OEM schedules.

As a user or buyer, you talk directly to the people who know the status of your order. They will give you a prompt assessment of your order status.

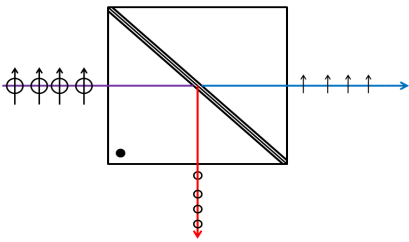
Having the components to successfully complete your project(s) and deliver your product is a direct measure of our performance. Place your order. Give us a chance to partner with you. You'll be convinced of our commitment to your success.

Thank you,

Greg Woodhouse
General Manager
OptiSource, LLC

Polarizing Beamsplitter Cubes

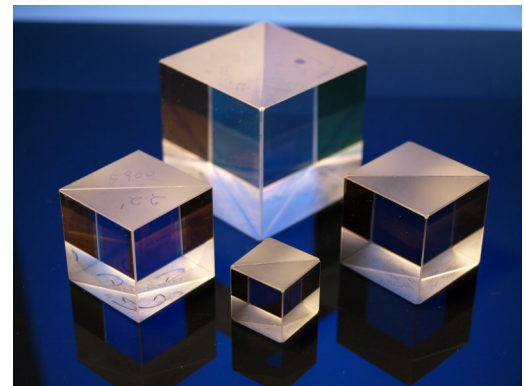
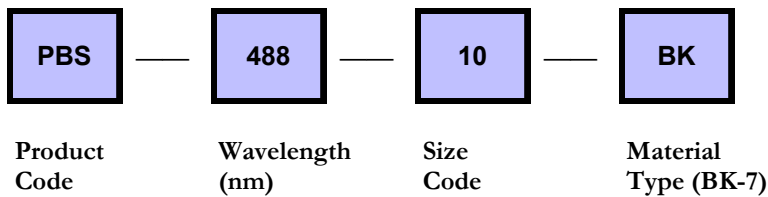
Product Code: PBS



Substrate Material: BK-7
 Dimension Tolerance: $\pm 0.010''$ [$\pm 0.25\text{mm}$]
 Transmitted Wavefront Distortion: $\lambda/4$ @ 633nm
 Surface Quality : 20-10
 Beam Deviation: < 3 arc minutes
 Extinction Ratio: $T_P/T_S > 1000:1$
 Clear Aperture: \geq central 85% of length
 AR coating: $\leq 0.25\%$ per surface
 Damage Threshold: $\geq 2\text{KW} / \text{cm}^2$ (CW); $\geq 1\text{J} / \text{cm}^2$, 10ns pulse

- Wavelength specific.
- For low power applications only (cemented).
- Dot indicates prism with coating on hypotenuse.

Order Example



Standard Wavelengths (nm)

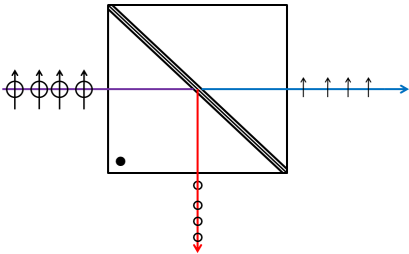
441.6	488.0	514.5	527.0
532.0	632.8	650.0	670.0
694.3	780.0	830.0	905.0
1053.0	1064.0	1310.0	1319.0
1540.0	1550.0		

Standard Size Codes

04: 10.0mm
05: 12.7mm
06: 15.0mm
08: 20.0mm
10: 25.4mm
12: 30.0mm
15: 38.1mm
20: 50.8mm

High Power Polarizing Beamsplitter Cubes

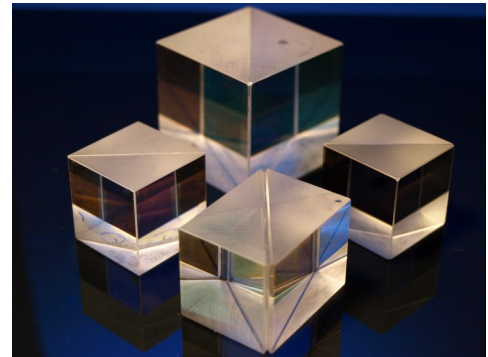
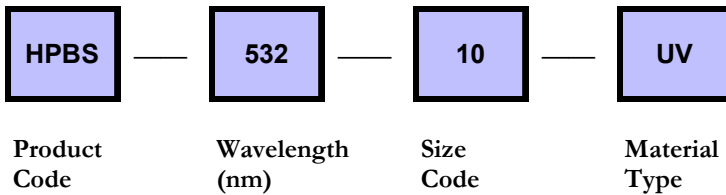
Product Code: HPBS



Substrate Material: UV Fused Silica, BK-7
 Dimension Tolerance: +/-0.010" [+/-0.25mm]
 Transmitted Wavefront Distortion: $\lambda/4$ @ 633nm
 Surface Quality : 20-10
 Beam Deviation: < 3 arc minutes
 Extinction Ratio: $T_P/T_S > 200:1$
 Clear Aperture: \geq central 85% of length
 AR coating: $\leq 0.25\%$ per surface
 Damage Threshold: $\geq 5J/cm^2$, 10ns @266nm; $\geq 10J/cm^2$, 10ns @ 1064nm

- Wavelength specific.
- For high power applications (optically contacted).
- Dot indicates prism with coating on the hypotenuse; to avoid damage the beam should enter through this prism.

Order Example



Standard Wavelengths (nm)

248.0	257.0	266.0	308.0
352.0	354.7	364.0	527.0
532.0	694.3	1047.0	1053.0
1064.0	1550.0		

Standard Size Codes

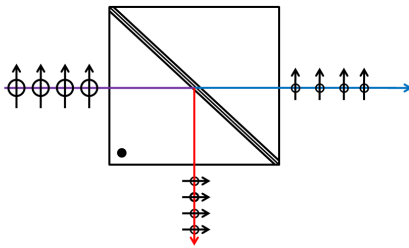
04: 10.0mm
05: 12.7mm
06: 15.0mm
08: 20.0mm
10: 25.4mm

Material Type Codes

BK
UV

Non-Polarizing Beamsplitter Cubes

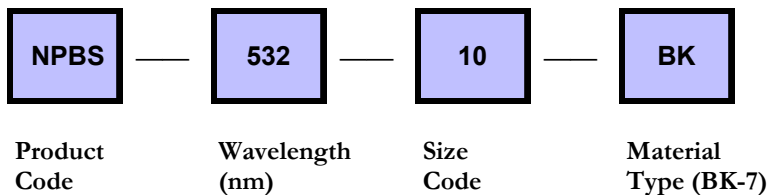
Product Code: NPBS



Substrate Material: BK-7
 Dimension Tolerance: +/-0.010" [+/-0.25mm]
 Transmitted Wavefront Distortion: $\lambda/4$ @ 633nm
 Surface Quality: 20-10
 Beam Deviation: < 3 arc minutes
 T and R: 50/50 +/-5% of T or R value
 Difference of reflectance "S" and "P": < 5%
 Clear Aperture: \geq central 85% of length
 AR coating: $\leq 0.25\%$ per surface
 Damage Threshold: $\geq 2\text{KW} / \text{cm}^2$ (CW); $\geq 1\text{J} / \text{cm}^2$, 10ns pulse

- Wavelength specific.
- For low power applications only (cemented).
- Dot indicates prism with coating on hypotenuse.

Order Example



Standard Wavelengths (nm)

413.0	441.6	488.0	514.5
527.0	532.0	632.8	670.0
680.0	694.3	780.0	830.0
905.0	1047.0	1053.0	1064.0
1310.0	1319.0	1540.0	1550.0

Standard Size Codes

02: 6.35mm
04: 10.0mm
05: 12.7mm
08: 20.0mm
10: 25.4mm
15: 38.1mm
20: 50.8mm