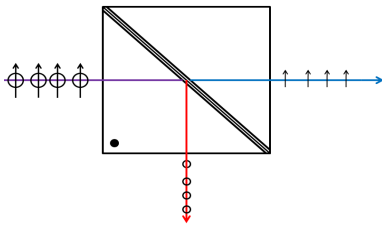


Polarizing Beamsplitter Cubes

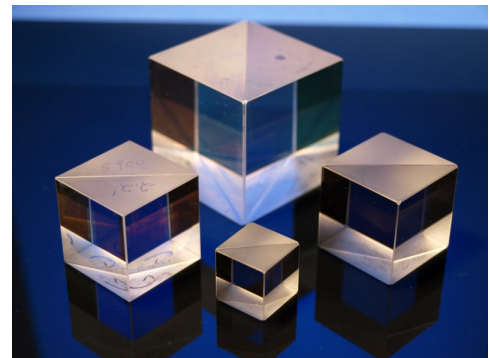
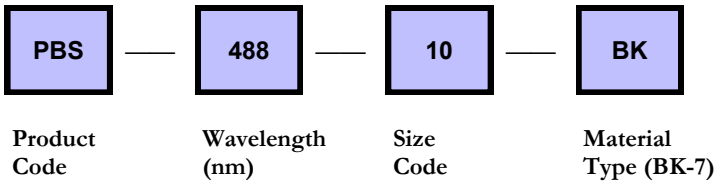
Product Code: PBS



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

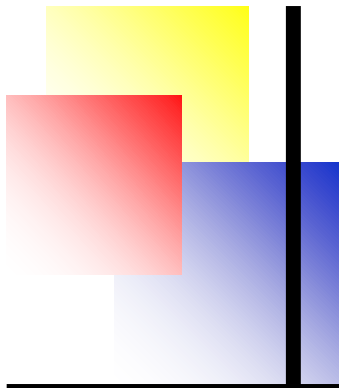


Standard Wavelengths (nm)

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		

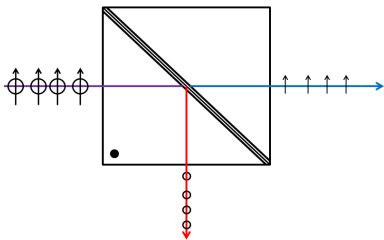
Standard Size Codes

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

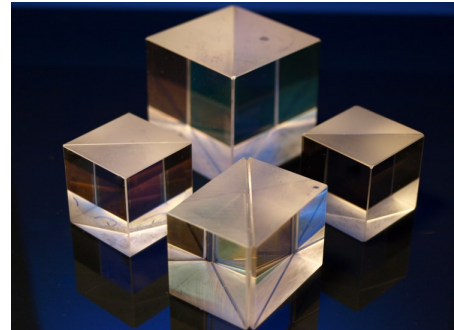
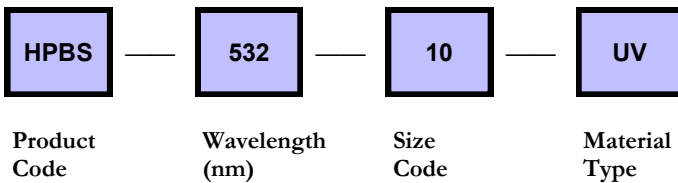
Product Code: HPBS



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

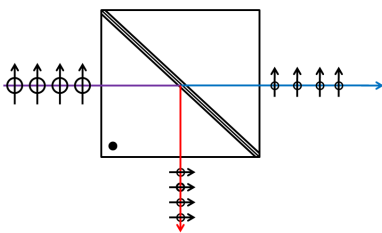
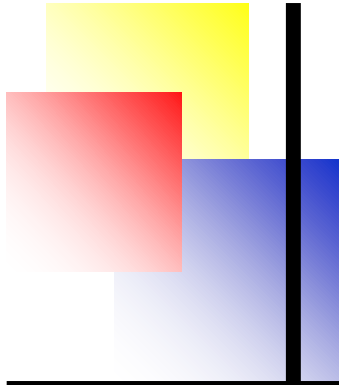
04: 10.0mm
05: 12.7mm
06: 15.0mm
08: 20.0mm
10: 25.4mm

Material Type Codes

BK
UV

Non-Polarizing Beamsplitter Cubes

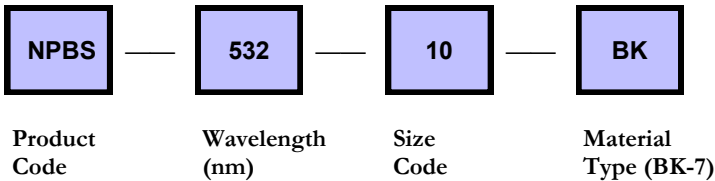
Product Code: NPBS



Substrate Material: BK-7
 Dimension Tolerance: $\pm 0.010''$ [$\pm 0.25\text{mm}$]
 Transmitted Wavefront Distortion: $\lambda/4$ @ 633nm
 Surface Quality: 20-10
 Beam Deviation: < 3 arc minutes
 T and R: 50/50 $\pm 5\%$ 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