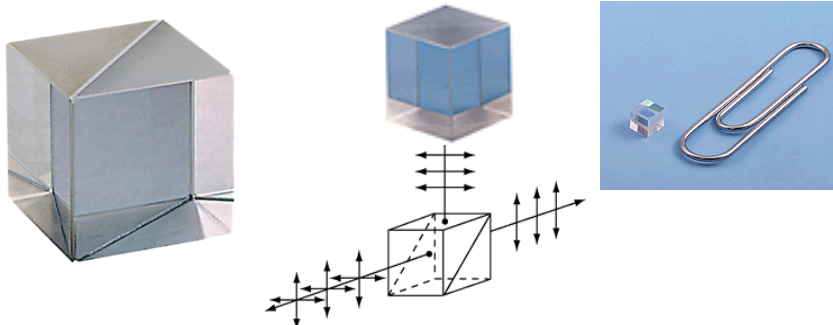


# Polarization Beam Splitter – Cube Design

## Broadband PBS Type

### Dielectric Coating for Split & AR Surfaces

### High Extinction Ratio



#### FEATURES

General purpose for NIR beam splitting to different polarization states, or used as polarization beam combiner

#### APPLICATIONS

Optical measurement setup  
NIR Interferometer system  
Laser system configuration  
Elements for fiber optical modules

Resolved by  
600line/mm grating

#### GENERAL SPECIFICATIONS:

Substrate Material:	BK7 glass, Grade A	
Dimension (shown as "X" inside P/N): (Dimension Tolerance: -0.05, +0.05mm typ.)	<b>00.8:</b> 0.8 x 0.8 x 0.8 <b>03.0:</b> 3.0 x 3.0 x 3.0 <b>08.0:</b> 8.0 x 8.0 x 8.0 <b>12.5:</b> 12.5 x 12.5 x 12.5 <b>15.0:</b> 15.0 x 15.0 x 15.0 <b>25.0:</b> 25.0 x 25.0 x 25.0 <b>50.0:</b> 50.0 x 50.0 x 50.0 <b>75.0:</b> 75.0 x 75.0 x 75.0 <b>100.0:</b> 100.0 x 100.0 x 100.0 <b>200.0:</b> 200.0 x 200.0 x 200.0 or other sizes upon request	<b>01.0:</b> 1.0 x 1.0 x 1.0 <b>05.0:</b> 5.0 x 5.0 x 5.0 <b>10.0:</b> 10.0 x 10.0 x 10.0 <b>12.7:</b> 12.7 x 12.7 x 12.7 <b>20.0:</b> 20.0 x 20.0 x 20.0 <b>25.4:</b> 25.4 x 25.4 x 25.4 <b>50.8:</b> 50.8 x 50.8 x 50.8 <b>76.2:</b> 76.2 x 76.2 x 76.2 <b>101.6:</b> 101.6 x 101.6 x 101.6 <b>203.2:</b> 203.2 x 203.2 x 203.2
Clear Aperture:	> 80%	
Surface Quality:	20 – 10 scratch and dig, or 10-5 scratch and dig upon request.	
Parallelism:	< 1'	
Optical Coating (shown as "W" inside P/N):	PBS dielectric coating (polarized) <b>W1:</b> 400 ~ 700nm <b>W3:</b> 900 ~ 1100nm <b>W5:</b> 1400 ~ 1700nm	<b>W2:</b> 700 ~ 900nm <b>W4:</b> 1100 ~ 1400nm
Input/Output Surface Coating:	Anti-reflection broadband coating; R<0.25% typ.	
Extinction Ratio:	200:1 typical; 500:1 max >1000:1 upon special order.	
Damage Threshold:	> 10 <sup>6</sup> W/cm <sup>2</sup> ; 10ns @ 1064nm pulse	
Package (shown as "Mounting Type" inside P/N):	<b>NM:</b> Un-mounted, typical. <b>M:</b> Mounted: upon request	

#### Ordering Information:

**P/B-PBS - <X> - <W> - <Mounting Type>**

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

#### Contact Information:

**PHOTONIK (SINGAPORE) PTE LTD**

8 Boon Lay Way, TradeHub 21, #04-04, Singapore 609964  
Tel: +65-6316-6370, +65-6316-2142 Fax: +65-6316-1082  
Email: sales@photonik.com.sg Web: www.photonik.com.sg

#### Local Representative:

