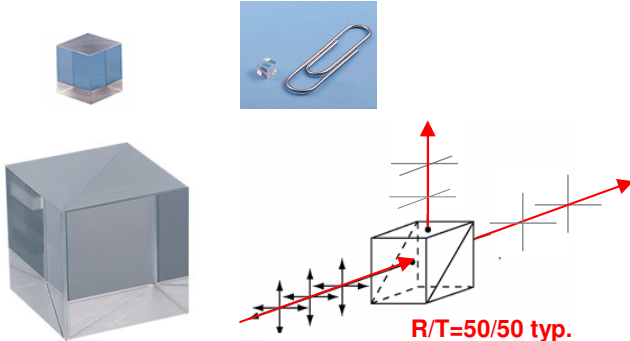


# Broadband Non Polarization Beam Splitters Cube

- **Cube design**
- **Full dielectric coating with lowest absorption**
- **Available for 5 typical bands**



## FEATURES

General purpose for laser-wavelength beams splitting with unchanged polarization states, or used as power splitter

## APPLICATIONS

Measurement system or instrument integration

**RoHS Compliant**

### GENERAL SPECIFICATIONS:

<b>Substrate Material:</b>	BK 7 optical glass (or UV fused silica upon special request)
<b>Surface Quality:</b>	40 – 20 scratch and dig
<b>Clear Aperture:</b>	Central, >90% of dimension
<b>Flatness:</b>	$\leq \lambda/10$ PV at 632.8 nm over the clear aperture
<b>Parallelism:</b>	< 1 arc minute
<b>Angle Tolerance:</b>	$\pm 2$ arc minutes
<b>Input/Output Surface Coating:</b>	Anti-reflection multilayer coating, R < 0.25% per surface
<b>Dimension:</b>	
(shown as "X" inside P/N)	
<b>(Dimension Tolerance: -0.05, +0.05mm typ.)</b>	
	<b>5.0:</b> 5.0 x 5.0 x 5.0mm
	<b>8.0:</b> 8.0 x 8.0 x 8.0mm
	<b>10.0:</b> 10.0 x 10.0 x 10.0mm
	<b>12.5:</b> 12.5 x 12.5 x 12.5mm
	<b>15.0:</b> 15.0 x 15.0 x 15.0mm
	<b>20.0:</b> 20.0 x 20.0 x 20.0mm
	<b>25.4:</b> 25.4 x 25.4 x 25.4mm
	<b>30.0:</b> 30.0 x 30.0 x 30.0mm
	<b>50.0:</b> 50.0 x 50.0 x 50.0mm
	<b>75.0:</b> 75.0 x 75.0 x 75.0mm
	or other sizes upon request
<b>Optical Coating:</b>	NPBS dielectric coating (unpolarized)
(shown as "W" inside P/N)	
	<b>W1:</b> 320 ~ 420nm
	<b>W2:</b> 400 ~ 700nm
	<b>W3:</b> 700 ~ 900nm
	<b>W4:</b> 800 ~ 1100nm
	<b>W5:</b> 1100 ~ 1600nm
<b>R/T Splitter Ratio:</b>	50/50; standard ratio if unspecified in P/N
(shown as "R/T" inside P/N)	Any R/T ratio upon request
<b>Splitter Ratio Tolerance:</b>	$\pm 2\%$ typ. ; 5% max
<b>Damage Threshold:</b>	2 kW/cm <sup>2</sup> CW, 100mJ/cm <sup>2</sup> with 10 nsec pulses at 10 Hz
<b>Surface Durability:</b>	MIL-M-13508C, MIL-C-675C, MIL-C-14806

### Ordering Information:

NPBS - <X> - <W> - <R/T> - <MX\*\*>

**Option:**  
Kinematic  
Mount for  
Cube



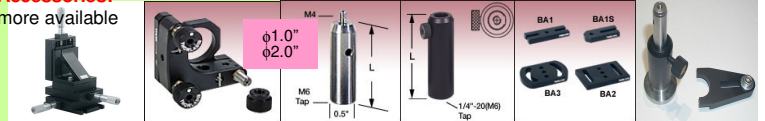
M1



M2

With 360° rotation

**Accessories:**  
more available



\*\* Post, post holder and pedestal & fork are not included. Sold separately.

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

### Contact Information:

#### PHOTONIK (SINGAPORE) PTE LTD

German Center, #04-102  
25 International Business Park  
Singapore 609916  
Tel: (65) 6562-7838, 6562-7976 Fax: (65) 6562-7839  
sales@photonik.com.sg www.photonik.com.sg

### Local Representative:

