

# Cube Beamsplitters

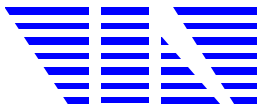
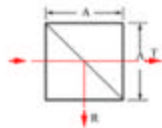
## Cube Beamsplitters .....

Cube beamsplitters are constructed by cementing two precision right angle prisms together with an appropriate interference coating on the hypotenuse surface. The absorption loss to the coating is minimal transmission and reflection approaches 50% (average) though output is partially polarized. The entrance, and exit faces are AR coated while the diagonal internal surface has the broadband beam splitting coating

- **BK7, grade A optical material**
- **Surface flatness  $\lambda/4$  @ 632.8nm**
- **Surface quality of 60/40 (S/D)**
- **Beam deviation of < 3 arc minutes**
- **T/R: 50/50 +/- 5% for random polarization**
- **Coating**
  - Hypotenuse face ..... **Partial Reflectance**
  - **Input and output faces ..... AR coated**  
(narrowband or broadband)



Size (mm)	Narrowband Coating wavelengths (nm)	Broadband Coating wavelength range (nm)
5 x 5 x 5	488, 532, 632.8,	450 – 650
10 x 10 x 10	650, 808, 850,	650 – 900
12.7 x 12.7 x 12.7	980, 1064,	900 – 1200
15 x 15 x 15	1310, 1550	1200 – 1550
20 x 20 x 20		1500 - 1610
25.4 x 25.4 x 25.4		
Dimensional Tolerance: +/- 0.2mm		



**VIN KAROLA INSTRUMENTS**

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