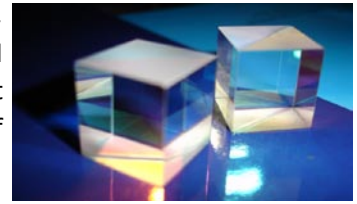
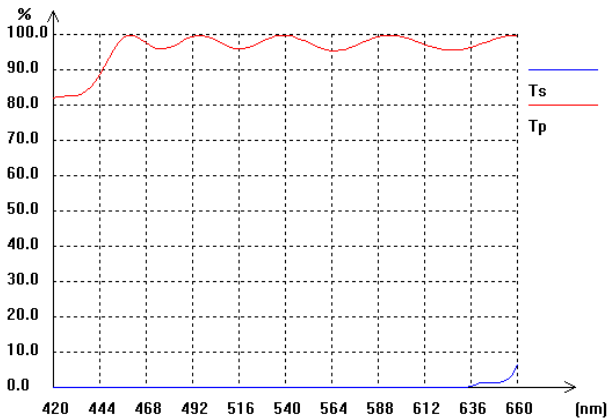


Polarizing Cube Beamsplitters split randomly polarized beams into two orthogonal, linearly, polarized components-S-polarized light is reflected at a 90deg. Angle while P-polarized light is transmitted. Each beamsplitter consists of a pair of precision high tolerance right angle prisms cemented together with a dielectric coating on the hypotenuse of one of prisms.

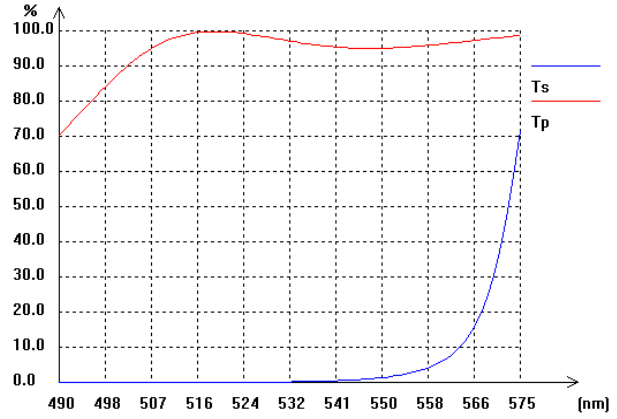


## Specifications

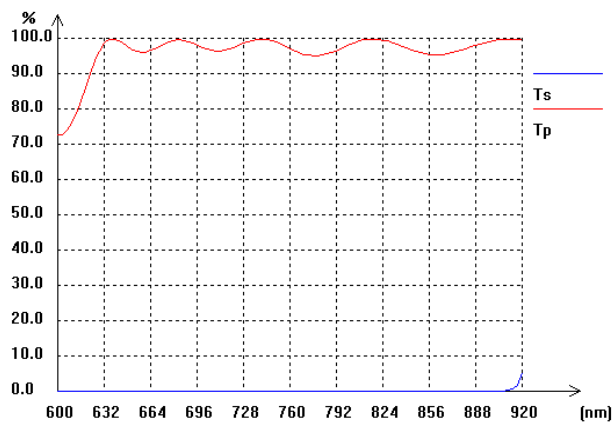
Dimension Tolerance	±0.2mm
Flatness	$\lambda / 4$ @ 632.8nm per 25mm
Surface Quality	60/40 Scratch/Dig
Extinction Ratio	>300:1
Beam Deviation	<3 arc minutes
Principal Transmittance	>95% and $T_s < 1\%$
Principal Reflectance	$R_s > 99\%$ and $R_p < 5\%$
Coatings	Polarization Beamsplitter Coating on Hypotenuse Face, AR-coatings ( $R < 0.25\%$ ) on All Input and Output Face.
Standard Coating Wavelength	Narrow Band: 488, 532, 632.8, 650, 808, 850, 980, 1064, 1310, 1550 nm Broadband: 450-650, 650-900, 900-1200, 1200-1550, 1500-1610 nm



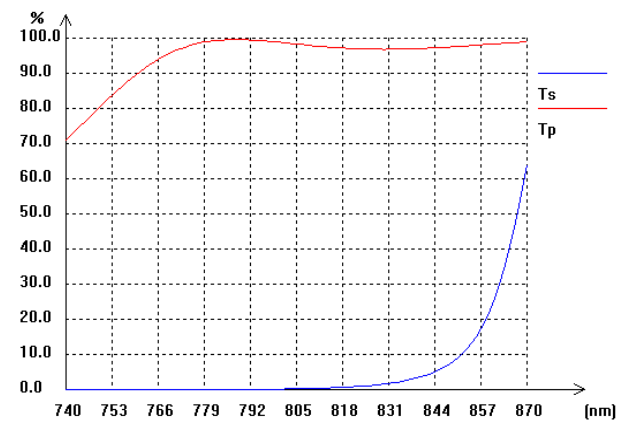
PBS@450-650nm



PBS@532nm



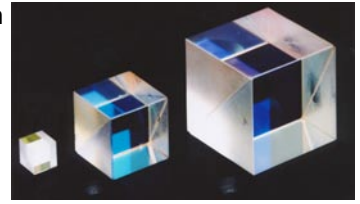
PBS@650-900nm



PBS@808nm

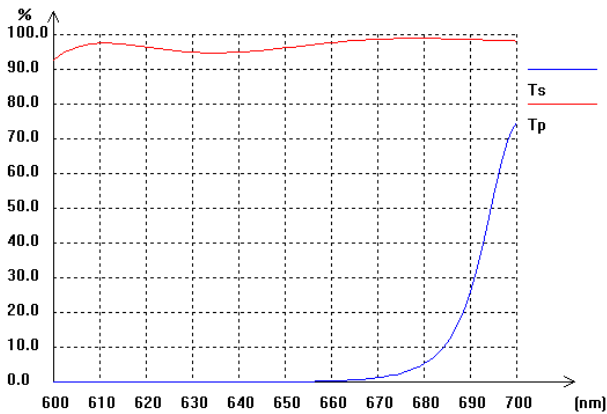
## High Power PBS

Dayoptics has successfully manufactured optically contacted PBS (Polarization Beam Splitter) which can be used as high as  $20\text{J}/\text{cm}^2$  @1064 nm 10 ns and 20Hz laser.

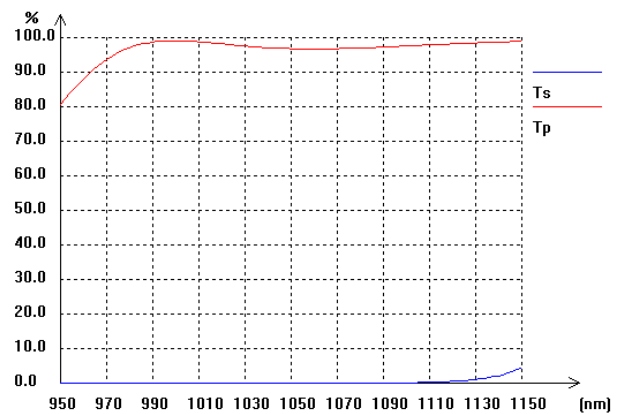


### Specifications

High Damaged Threshold	$\sim 20\text{J}/\text{cm}^2$ @ 1064nm 10ns, 20Hz
Optically Contacted	Epoxy Free
Transmission	> 96% @ Central Wavelength
Extinction Ratio	Better than 35dB
Dimension	From 1mm to 38 mm
Various Wavelength Available	
High Cost Performance	



PBS@633nm



PBS@1064nm