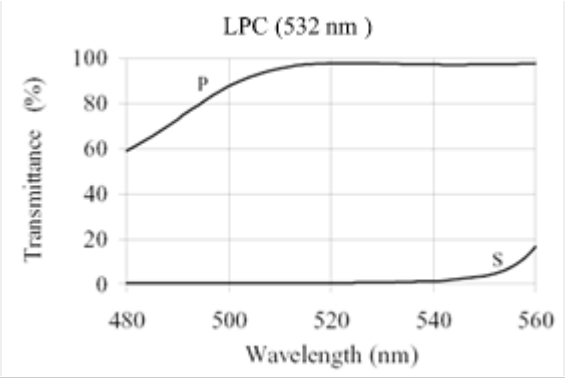
Laser line Polarization Beamsplitter Coatings(Part No: LPC)

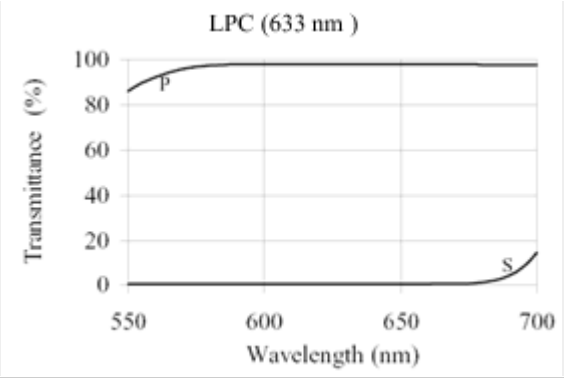
Laser line Polarizing Cube Beamsplitter coatings are deposited between two optically contacted, right angle prisms. They are designed to separate an incident, unpolarized, monochromatic beam into its S and P polarization components with an extinction ratio (Tp/Ts) in excess of 100:1. The incident energy is split into two orthogonally polarized beams that emerge at 90 degree with respect to each other.

These coatings were developed specifically for use in high power pulsed and CW laser applications.

Reflectance Simulation of Laser line Polarization Beamsplitter Coatings



Designed condition: *1) Substrate: BK7 Glass Polarzing Plate Beamsplitter*
2) Center wavelength: 532nm
3) Illuminant: White



Designed condition: *1) Substrate: BK7 GlassPolarzing Cube Beamsplitter*
2) Center wavelength:633um
3) Illuminant: White

Laser line Polarization Beamsplitter Coatings on Cubes.

Wavelength Range (nm)	Incident Angles	Transmittance (Tp,Ts)	Reflectance (Rs,Rp)	Recommended Substrate	Coating Index
488	45°	Tp>95%,Ts<1%	Rs>99%,Rp<5%	BK7,Fused Silica	UQT-LPC001
532	45°	Tp>95%,Ts<1%	Rs>99%,Rp<5%	BK7,Fused Silica	UQT-LPC002
633	45°	Tp>95%,Ts<1%	Rs>99%,Rp<5%	BK7,Fused Silica	UQT-LPC003
670	45°	Tp>95%,Ts<1%	Rs>99%,Rp<5%	BK7,Fused Silica	UQT-LPC004
780	45°	Tp>95%,Ts<1%	Rs>99%,Rp<5%	BK7,Fused Silica	UQT-LPC005
850	45°	Tp>95%,Ts<1%	Rs>99%,Rp<5%	BK7,Fused Silica	UQT-LPC006
980	45°	Tp>95%,Ts<1%	Rs>99%,Rp<5%	BK7,Fused Silica	UQT-LPC007
1064	45°	Tp>95%,Ts<1%	Rs>99%,Rp<5%	BK7,Fused Silica	UQT-LPC008
1300	45°	Tp>95%,Ts<1%	Rs>99%,Rp<5%	BK7,Fused Silica	UQT-LPC009

Please Contact ultiQuest for more information and technical supports.

NOTES!

- The values of laser damage threshold are based on actual measurement and not a guaranteed specification.