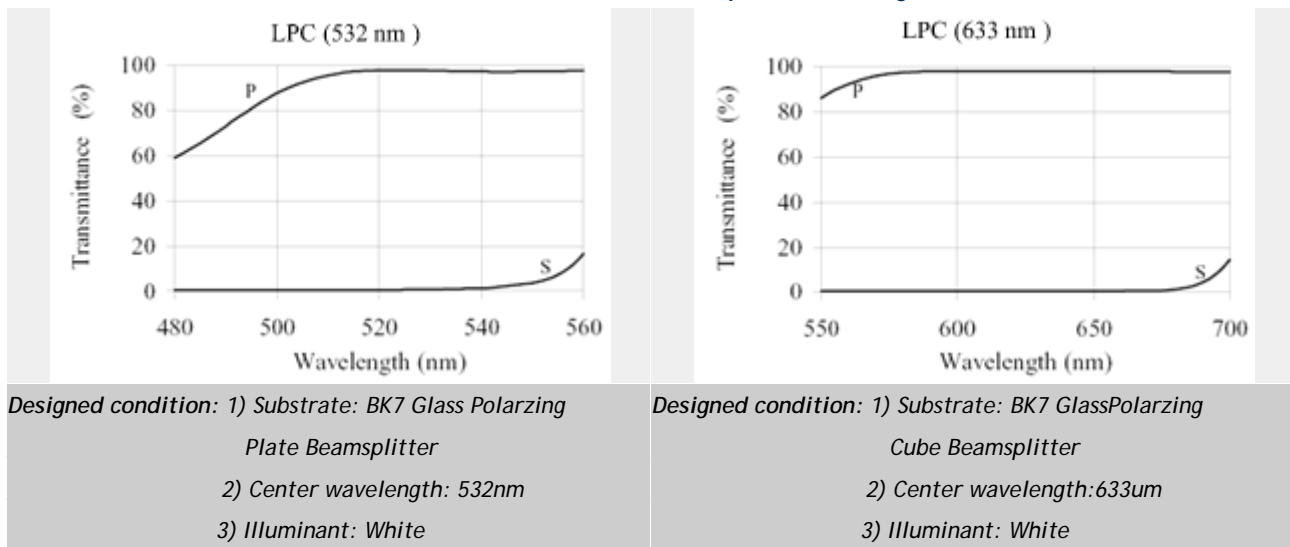


Laser line Polarization Beamsplitter Coatings(Part No: LPC)

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 (T_p/T_s) 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



Laser line Polarization Beamsplitter Coatings on Cubes.

| Wavelength Range (nm) | Incident Angles | Transmittance (T_p, T_s) | Reflectance (R_s, R_p) | Recommended Substrate | Coating Index |
|-----------------------|-----------------|------------------------------|----------------------------|-----------------------|---------------|
| 488 | 45° | $T_p > 95\%, T_s < 1\%$ | $R_s > 99\%, R_p < 5\%$ | BK7, Fused Silica | UQT-LPC001 |
| 532 | 45° | $T_p > 95\%, T_s < 1\%$ | $R_s > 99\%, R_p < 5\%$ | BK7, Fused Silica | UQT-LPC002 |
| 633 | 45° | $T_p > 95\%, T_s < 1\%$ | $R_s > 99\%, R_p < 5\%$ | BK7, Fused Silica | UQT-LPC003 |
| 670 | 45° | $T_p > 95\%, T_s < 1\%$ | $R_s > 99\%, R_p < 5\%$ | BK7, Fused Silica | UQT-LPC004 |
| 780 | 45° | $T_p > 95\%, T_s < 1\%$ | $R_s > 99\%, R_p < 5\%$ | BK7, Fused Silica | UQT-LPC005 |
| 850 | 45° | $T_p > 95\%, T_s < 1\%$ | $R_s > 99\%, R_p < 5\%$ | BK7, Fused Silica | UQT-LPC006 |
| 980 | 45° | $T_p > 95\%, T_s < 1\%$ | $R_s > 99\%, R_p < 5\%$ | BK7, Fused Silica | UQT-LPC007 |
| 1064 | 45° | $T_p > 95\%, T_s < 1\%$ | $R_s > 99\%, R_p < 5\%$ | BK7, Fused Silica | UQT-LPC008 |
| 1300 | 45° | $T_p > 95\%, T_s < 1\%$ | $R_s > 99\%, R_p < 5\%$ | 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.