

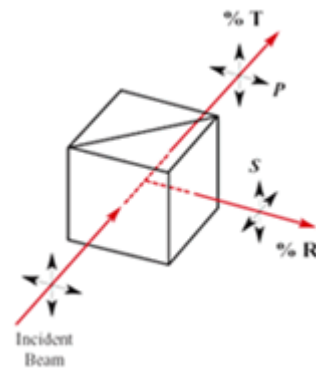
# LASER-LINE NONPOLARIZING CUBE BEAMSPLITTERS

Laser-line nonpolarizing cube beamsplitters are particularly useful with randomly polarized lasers. In a randomly polarized laser, polarization ratio and direction can be time varying. Using a randomly polarized laser with a polarization sensitive component, can lead to changes in transmission value over time. A nonpolarizing dielectric beamsplitter ensures stable performance regardless of the polarization state of the source.

Laser-line nonpolarizing cube beamsplitters are designed for applications in which polarization effects must be kept to a minimum. Their all-dielectric construction provides negligible absorption.

## Standard Specifications:

Optical Material:	BK7 grade A optical glass
Diameter Tolerance:	±0.2mm
Surface Quality:	60-40 scratch and dig
Surface Flatness:	λ/4 at 632.8nm
Beam Deviation:	<10 arc minutes
Nominal T/R Ratio:	50/50±5% for any polarization
Clear Aperture:	>85%
Bevel:	<0.25mm X 45°
Coating:	Antireflection coating on entrance and exit faces.
Available Wavelength:	488, 532, 632.8, 650, 780, 808, 850, 980, 1047, 1053, 1064, 1310, 1319, 1342, 1550nm



## Standard Laser-line Nonpolarizing Cube Beamsplitters

Dimension(mm)	Shape	Nominal R/T Ratio	Product Number
10.0x10.0x10.0	Square	50/50	UQT-LNB0501
12.7x12.7x12.7	Square	50/50	UQT-LNB0502
15.0x15.0x15.0	Square	50/50	UQT-LNB0503
20.0x20.0x20.0	Square	50/50	UQT-LNB0504
25.4x25.4x25.4	Square	50/50	UQT-LNB0505

Please Contact [ultiQuest](#) for other dimensions in prototype and production quantities.

### NOTES!

- ➔ The transmittance curve is a graph based on actual measurements and may vary from production lot to production lot.
- ➔ The surface flatness is the reflected wavefront distortion of the surface before coating.
- ➔ Plate-type nonpolarizing beam splitters are also provided upon request.
- ➔ Be sure to wear laser safety goggles when checking optical path and adjusting optical axis.