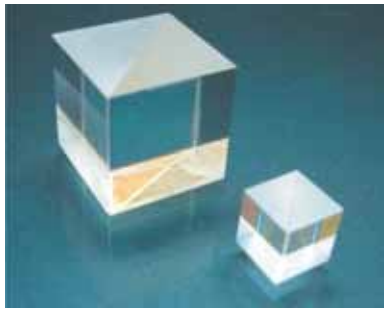
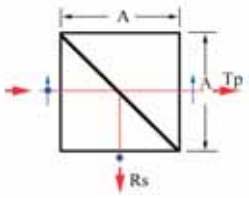
Non-Polarizing Beamsplitter Cube NPBS



Non-polarizing beamsplitter cubes consist of a pair of precision right-angle prisms that have been carefully cemented or mounted together to minimize wavefront distortion. It provides a true 50/50 split at a specific laser wavelength (e.g., 632.8), regardless of the incoming polarization. These beamsplitters are particularly useful with randomly polarized lasers and are specifically designed for applications in which polarization effects must be at a minimum.
Non-polarizing beamsplitter cubes are specifically designed to maintain the reflected and transmitted beam where the incident laser radiation polarization characteristics are applied. This occurs because these devices are less sensitive to polarization and because they are designed from (or are at least coated with) dielectric materials, which provide negligible absorption. The end result is stable performance regardless of the energy sources involved.

Dimension Tolerance:	±0.2mm
Flatness:	λ/4@632.8nm
Surface Quality:	60-40 scratch and dig
Beam Deviation:	<3 arc minutes
Transmittance:	45%±5%
Absorption:	<10%
Polarization:	6%



1. Narrow Band

Material:	BK7 Grade A optical glass
Coating wavelength:	633, 780, 850, 980, 1310, 1550 nm

Size(mm)	Part No.
3.2x3.2x3.2	NPB1-101
5x5x5	NPB1-102
10x10x10	NPB1-103
12.7x12.7x12.7	NPB1-104
15x15x15	NPB1-105

2. Broadband

Material:	SF5 optical glass
Coating wavelength:	450-680, 650-900, 900-1200 nm

Size(mm)	Part No.
3.2x3.2x3.2	NPB0-201
5x5x5	NPB0-202
10x10x10	NPB0-203
12.7x12.7x12.7	NPB0-204
15x15x15	NPB0-205