

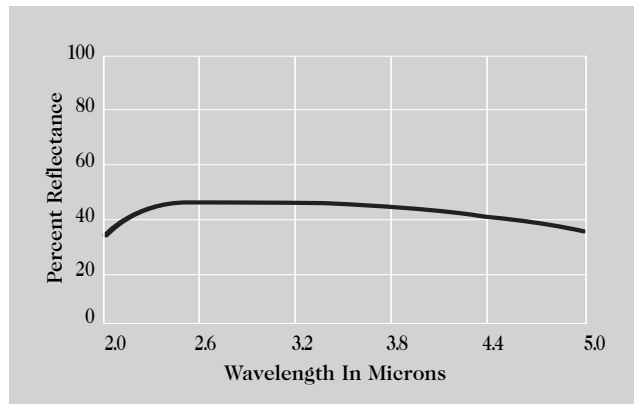
Beamsplitter 3.0 microns

The beamsplitters are designed for femtosecond laser applications in the mid-infrared. Based on a single-layer quarter-wave stack design they provide a 50/50 split for s-polarization at 45 deg incidence with minimal phase distortion of short laser pulses. The beamsplitters are made on thin CaF2 substrates and are free of hydroxyl absorption bands common to coatings based on oxide materials.

Dia tolerance	+0,-0.005" (+0,-0.13mm)
Th tolerance	±0.005" (±0.13mm)
Clear Aperture	85%
Parallelism	3 arc min
Flatness	2 waves at 633 nm
Surface Finish	40/20
Coating	50/50 ± 10% R/T for 3.0 um for s-polarization
Angle of Incidence	45 deg

CAT #	DIA, in	DIA, mm	TH, in	TH, mm
BSP3.0-CF-25-1	1.0	25.4	0.039	1.0
BSP3.0-CF-25-2	1.0	25.4	0.079	2.0
BSP3.0-CF-50-1	2.0	50.8	0.039	1.0
BSP3.0-CF-50-2	2.0	50.8	0.079	2.0

Beamsplitter Coating CaF2 3.0 um



Custom sizes and specifications are available