



## BI-CONVEX LENSES

Used as a focusing element, these lenses produce a better image than plano-convex lenses in low *f*-number applications.

## Barium Fluoride (BaF<sub>2</sub>)

Diameter tolerance	+0,-0.005" (+0,-0.13 mm)
Center Thickness tolerance	±0.008" (±0.2 mm)
Design Wavelength	5.0 microns
Focal Length Tolerance	±2%
Surface Quality	60/40
Clear Aperture	90% Central Diameter
Wedge Angle	< 3 arc min
Surface Irregularity	1 λ at 633 nm

CAT #	DIA, in	DIA, mm	FOC, mm	CT, mm	R, mm	ET, mm
BF-BX-12-12	0.5	12.7	12.7	5.8	10.471	1.5
BF-BX-12-25	0.5	12.7	25.4	3.3	22.340	1.5
BF-BX-12-50	0.5	12.7	50.8	2.4	45.430	1.5
BF-BX-12-76	0.5	12.7	76.2	2.1	68.390	1.5
BF-BX-25-25	1.0	25.4	25.4	10.5	21.230	2.1
BF-BX-25-50	1.0	25.4	50.8	5.7	44.870	2.0
BF-BX-25-63	1.0	25.4	63.5	4.9	56.490	2.0
BF-BX-25-76	1.0	25.4	76.2	4.4	67.920	2.0
BF-BX-25-100	1.0	25.4	100.0	3.8	89.540	2.0
BF-BX-25-150	1.0	25.4	150.0	3.2	134.90	2.0
BF-BX-38-38	1.5	38.1	38.1	15.2	31.840	2.5
BF-BX-38-50	1.5	38.1	50.8	11.2	43.950	2.5
BF-BX-38-63	1.5	38.1	63.5	9.2	55.850	2.5
BF-BX-38-76	1.5	38.1	76.2	8.0	67.450	2.5
BF-BX-38-100	1.5	38.1	100	6.6	89.130	2.5
BF-BX-38-150	1.5	38.1	150	5.2	134.28	2.5
BF-BX-50-50	2.0	50.8	50.8	19.8	42.560	3.0
BF-BX-50-76	2.0	50.8	76.2	13.1	66.620	3.0
BF-BX-50-100	2.0	50.8	100	10.4	88.510	3.0
BF-BX-50-150	2.0	50.8	150	7.9	134.22	3.0
BF-BX-50-200	2.0	50.8	200	6.6	179.47	3.0
BF-BX-50-250	2.0	50.8	250	5.9	224.90	3.0
BF-BX-50-500	2.0	50.8	500	4.4	449.80	3.0
BF-BX-76-150	3.0	76.2	150	14.6	132.98	3.5
BF-BX-76-200	3.0	76.2	200	11.7	178.65	3.5
BF-BX-76-250	3.0	76.2	250	10.0	224.00	3.5
BF-BX-76-500	3.0	76.2	500	6.7	449.80	3.5

Custom sizes and specifications are available