

## BI-CONVEX MICROLENSSES

These lenses are useful in fiber coupling, micro laser systems and medical applications.



## Fused Silica UV Grade (SiO<sub>2</sub>)

<b>Material</b>	<b>Fused Silica UV Grade</b>
<b>Diameter tolerance</b>	<b>+0,-0.002" (+0,-0.05 mm)</b>
<b>Center Thickness tolerance</b>	<b>±0.004" (±0.1 mm)</b>
<b>Design Wavelength</b>	<b>546 nm</b>
<b>Focal Length Tolerance</b>	<b>±3%</b>
<b>Surface Quality</b>	<b>60/40</b>
<b>Clear Aperture</b>	<b>90% Central Diameter</b>
<b>Wedge Angle</b>	<b>&lt; 6 arc min</b>

CAT#	DIA, in	DIA, mm	FOC, mm	CT, mm	ET, mm	R, mm
QU-BXM-2-2.0	0.08	2.0	2.0	1.0	0.3	1.644
QU-BXM-2-3.0	0.08	2.0	3.0	0.7	0.3	2.606
QU-BXM-2-4.0	0.08	2.0	4.0	0.6	0.3	3.597
QU-BXM-4-4.0	0.16	4.0	4.0	1.8	0.5	3.35
QU-BXM-4-6.0	0.16	4.0	6.0	1.3	0.5	5.321
QU-BXM-4-8.0	0.16	4.0	8.0	1.1	0.5	7.145
QU-BXM-4-10.0	0.16	4.0	10.0	1.0	0.5	9.036

## Germanium (Ge)

<b>Material</b>	<b>Germanium</b>
<b>Diameter tolerance</b>	<b>+ 0,-0.002" (+0,-0.05 mm)</b>
<b>Center Thickness tolerance</b>	<b>±0.004" (±0.1 mm)</b>
<b>Design Wavelength</b>	<b>10.6 microns</b>
<b>Focal Length Tolerance</b>	<b>±3%</b>
<b>Surface Quality</b>	<b>60/40</b>
<b>Clear Aperture</b>	<b>90% Central Diameter</b>
<b>Wedge Angle</b>	<b>&lt; 6 arc min</b>

CAT#	DIA, in	DIA, mm	FOC, mm	CT, mm	ET, mm	R, mm
GE-BXM-2-1.5	0.08	2.0	1.5	0.6	0.48	8.750
GE-BXM-2-2.0	0.08	2.0	2.0	0.6	0.51	11.776
GE-BXM-2-3.0	0.08	2.0	3.0	0.6	0.54	17.783
GE-BXM-2-4.0	0.08	2.0	4.0	0.6	0.55	23.820
GE-BXM-4-4.0	0.16	4.0	4.0	0.7	0.53	23.770
GE-BXM-4-6.0	0.16	4.0	6.0	0.6	0.48	35.730
GE-BXM-4-8.0	0.16	4.0	8.0	0.6	0.51	47.750
GE-BXM-4-10.0	0.16	4.0	10.0	0.6	0.53	59.703

Custom sizes and specifications are available