

POSITIVE MENISCUS LENSES

Used with the shorter radius facing the longer conjugate, these lenses act as a focusing element with less aberrations than plano-convex lenses.



Germanium (Ge)

Diameter tolerance	+0,-0.005" (+0,-0.13 mm)
Center Thickness tolerance	+/-0.008" (+/-0.2 mm)
Design Wavelength	10.6 microns
Focal Length Tolerance	+/-2%
Surface Quality	60/40
Clear Aperture	90% Central Diameter
Wedge Angle	<3 arc min
Surface Irregularity	1/20 λ at 10.6 microns

CAT#	DIA, in	DIA, mm	FOC, mm	CT, mm	T, mm	Sag1, mm	Sag2, mm	R1cc, mm	R2ex, mm
GE-PM-12-12	0.5	12.7	13.0	2.5	2.1	1.1	1.5	22.96	15.59
GE-PM-12-25	0.5	12.7	25.0	2.0	1.8	0.5	0.8	40.27	27.13
GE-PM-12-50	0.5	12.7	50.0	2.0	1.9	0.3	0.4	79.43	52.84
GE-PM-25-25	1.0	25.4	25.0	3.0	2.0	2.4	3.4	37.15	26.30
GE-PM-25-38	1.0	25.4	38.0	2.7	2.0	1.5	2.2	53.95	38.04
GE-PM-25-50	1.0	25.4	50.0	3.0	2.5	1.1	1.6	74.47	51.45
GE-PM-25-63	1.0	25.4	63.5	3.0	2.6	0.9	1.3	93.11	63.68
GE-PM-25-76	1.0	25.4	75.0	2.8	2.4	0.8	1.1	104.23	72.78
GE-PM-25-100	1.0	25.4	100	3.0	2.7	0.5	0.8	161.06	106.15
GE-PM-25-127	1.0	25.4	127	2.9	2.7	0.4	0.6	187.07	127.35
GE-PM-38-38	1.5	38.1	38.0	4.5	2.9	3.5	5.0	52.36	38.04
GE-PM-38-50	1.5	38.1	50.0	4.5	3.4	2.4	3.3	77.62	53.33
GE-PM-38-63	1.5	38.1	63.5	3.9	3.0	2.1	3.0	87.30	61.94
GE-PM-38-76	1.5	38.1	75.0	4.5	3.7	1.7	2.4	109.65	76.03
GE-PM-38-100	1.5	38.1	100	4.3	3.7	1.2	1.8	151.05	102.33
GE-PM-38-127	1.5	38.1	127	4.5	4.0	1.0	1.4	187.07	127.35
GE-PM-38-150	1.5	38.1	150	4.4	4.0	0.8	1.2	223.40	151.36
GE-PM-38-200	1.5	38.1	200	4.5	4.2	0.6	1.8	290.40	199.07
GE-PM-50-50	2.0	50.8	50.0	5.2	3.1	4.7	6.8	65.77	48.53
GE-PM-50-63	2.0	50.8	63.0	5.1	3.5	3.8	5.4	86.70	61.94
GE-PM-50-76	2.0	50.8	75.0	5.4	4.0	3.0	4.4	106.17	74.64
GE-PM-50-100	2.0	50.8	100	5.8	4.8	2.3	3.3	139.64	98.40
GE-PM-50-127	2.0	50.8	127	5.2	4.3	1.8	2.6	187.07	127.35
GE-PM-50-150	2.0	50.8	150	5.3	4.6	1.6	2.3	200.40	141.25
GE-PM-50-200	2.0	50.8	200	5.2	4.7	1.1	1.6	290.40	199.07

Custom sizes and specifications are available