

Infrared Fresnel Lenses

An inexpensive alternative to crystalline optics, these molded IR plastic lenses have a high F-number and high transmittance in the 8-14 and 15-40 um range

Material IR plastic (see Optical Materials Specifications page 30)
Focal Length (FOC) design at 8-14 um
Overall size see Table below
Fresnel size (Diameter) see Table below
Thickness 0.060" (1.5 mm)

CAT #	FOC, in	FOC, mm	Overall size, in	Overall size, mm	Fresnel size, Dia, in	Fresnel size, Dia, mm
FRES-10	0.4	9.6	1 x 1	25 x 25	0.5	12.7
FRES-15	0.6	14.5	1.5 x 1.5	38 x 38	1.0	25.4
FRES-20	0.8	20.3	2 x 2	51 x 51	1.3	33.0
FRES-25	0.9	23.9	1.5 x 1.5	38 x 38	1.0	25.4
FRES-30	1.2	31.0	2.3 x 2.3	58 x 58	2.0	50.8
FRES-35	1.4	36.3	2.3 x 2.3	58 x 58	2.0	50.8
FRES-50	1.8	46.7	2.5 x 2.5	64 x 64	2.0	50.8
FRES-60	2.2	56.9	3 x 3	77 x 77	2.5	63.0
FRES-70	2.75	69.9	3 x 3	77 x 77	2.5	63.0
FRES-90	3.6	90.7	3 x 3	77 x 77	2.5	63.0
FRES-200	7.45	189.2	3 x 3	77 x 77	2.5	63.0