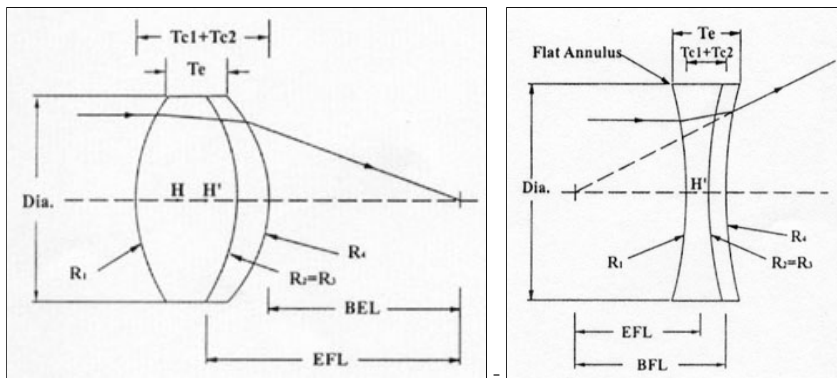


AL31--Positive Achromatic-Doublets Lenses

AL32--Negative Achromatic-Doublets Lenses

Diameter Tolerance:	+0.0/-0.1mm
Center Thickness:	± 0.2 mm
Focal Length:	$\pm 2\%$
Centering Tolerance:	3~5 arc minutes
Center Aperture:	90% Diameter
Surface Figure:	$\lambda/4$ @632.8nm
Surface Quality:	60-40 scratch and dig
Coatings:	Single layer MgF2 broadband AR coating @550nm
Bevel:	0.2mmX45°



Positive Achromatic-Doublets Lenses

Catalog No.	Dia.	EFL	(mm)			Lens	
			BFL	Tc	Te	A	B
AL31-003-004	3.15	4.0	2.50	2.90	1.81	BaF5	SF11
AL31-004-005	4.0	5.0	3.122	3.63	2.66	BaF5	SF11
AL31-004-006	4.0	6.3	4.789	3.59	2.78	BaK2	SF15
AL31-006-008	6.3	8.0	5.002	5.80	4.30	BaF5	SF11
AL31-006-010	6.3	10.0	7.578	5.69	4.41	BaK2	SF15
AL31-006-012	6.3	12.5	10.481	4.44	3.47	BaK2	SF15
AL31-006-016	6.3	16.0	14.172	4.00	3.26	BaK2	SF15
AL31-006-025	6.3	25.0	23.40	3.63	3.15	BK7	SF12
AL31-006-040	6.3	40.0	38.565	3.31	3.01	BK7	SF12
AL31-008-016	8.0	16.0	13.776	5.10	3.89	BaK2	SF15
AL31-010-016	10.0	16.0	12.688	6.08	4.36	BaF5	SF11
AL31-010-020	10.0	20.0	17.223	6.37	4.86	BaK2	SF15
AL31-010-025	10.0	25.0	22.909	4.54	3.37	BaK2	SF15
AL31-010-040	10.0	40.0	38.061	4.29	3.54	BK7	SF12
AL31-010-040	10.0	40.0	38.061	4.29	3.54	BK7	SF12
AL31-010-063	10.0	63.0	61.263	4.02	3.55	BK7	SF12
AL31-012-032	12.5	31.5	28.863	5.74	4.28	BaK2	SF15
AL31-016-025	16.0	25.0	19.826	9.50	6.66	BaF5	SF11
AL31-016-032	16.0	31.5	27.821	7.71	5.28	BaK2	SF15
AL31-016-040	16.0	40.0	36.651	7.29	5.41	BaK2	SF15
AL31-016-050	16.0	50.0	47.370	5.60	4.12	BaK2	SF15
AL31-016-063	16.0	63.0	60.467	5.26	4.04	BK7	SF12
AL31-016-100	16.0	100.0	97.531	5.32	4.55	BK7	SF12
AL31-020-063	20.0	63.0	59.69	7.05	5.21	BaK2	SF15
AL31-020-080	20.0	80.0	77.403	5.58	4.14	BaK2	SF15
AL31-025-040	25.0	40.0	34.026	10.74	6.25	BaF5	SF11
AL31-025-050	25.0	50.0	45.108	10.30	6.61	BaK2	SF15
AL31-025-063	25.0	63.0	58.645	9.21	6.32	BaK2	SF15
AL31-025-080	25.0	80.0	76.296	7.70	5.44	BaK2	SF15
AL31-025-100	25.0	100.0	96.752	6.98	5.18	BaK2	SF15
AL31-025-125	25.0	125.0	122.294	5.74	4.31	BaK2	SF15
AL31-025-160	25.0	160.0	157.529	4.90	3.74	BK7	SF12
AL31-025-200	25.0	200.0	197.143	5.66	4.73	BK7	SF12

Positive and Negative Achromatic Doublets Lenses from Align Optics

AL31-025-250	25.0	250.0	247.771	4.22	3.48	BK7	SF12
AL31-025-315	25.0	315.0	312.327	5.01	4.42	BK7	SF12
AL31-025-400	25.0	400.0	397.310	4.80	4.34	BK7	SF12
AL31-025-500	25.0	500.0	497.05	4.64	4.27	BK7	SF12
AL31-032-160	31.5	160.0	156.54	7.34	5.56	BaK2	SF15
AL31-032-200	31.5	200.0	196.903	6.11	4.63	BK7	SF12
AL31-040-063	40.0	63.0	53.506	16.50	9.63	BaF5	SF11
AL31-040-100	40.0	100.0	94.191	11.84	7.19	BaK2	SF15
AL31-040-160	40.0	160.0	155.512	9.24	6.37	BaK2	SF15
AL31-040-250	40.0	250.0	246.129	7.64	5.73	BK7	SF12
AL31-040-400	40.0	411.8	409.021	5.92	4.73	BK7	SF12
AL31-050-100	50.0	100.0	91.968	15.89	8.57	BaK2	SF15
AL31-050-160	50.0	160.0	151.924	12.37	7.86	BaK2	SF15
AL31-050-250	50.0	250.0	245.227	9.56	6.70	BaK2	SF15
AL31-050-630	50.0	630.0	626.463	6.30	5.12	BK7	SF12
AL31-063-150	63.0	150.0	41.249	17.39	9.70	BaK2	SF15

Negative Achromatic-Doublets Lenses

Catalog No.	Dia.	EFL	(mm)		Tc	Te	Lens	
			BFL				A	B
AL32-012-025	12.5	-25.0	-27.5		5.67	7.42	BK7	F2
AL32-012-040	12.5	-40.0	-42.5		5.34	6.45	BK7	F2
AL32-025-050	25.0	-50.0	-53.3		7.22	10.75	BK7	F2
AL32-025-100	25.0	-100.0	-102.6		6.60	8.39	BK7	F2

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