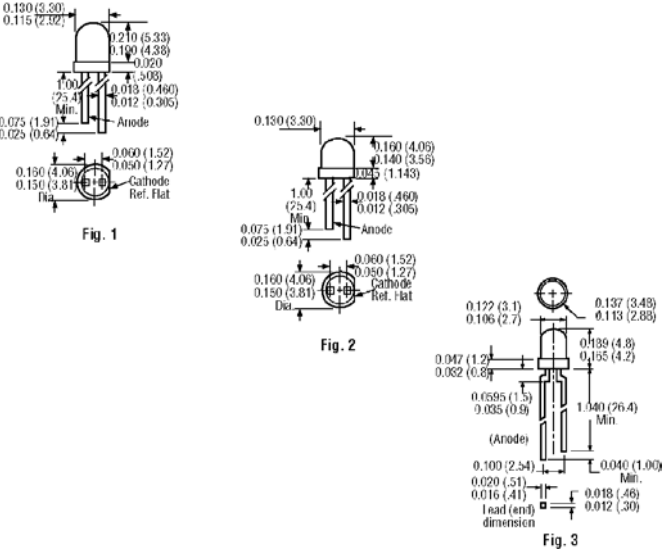


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3 mm LED Lamps



T-1 Lamps — Fig. 1

Stock No.	Mfr.'s Type	Source Color	Wave Length $\lambda_p$ (nm)	Lens Color	Typical Viewing Angle	Forward Voltage $V_f$ (V)				Luminous Intensity $I_v$ (mcd)	Notes*	EACH	
						Typ.	Max.	Min.	Typ.			1-99	100
990-3048	MV5074C	Red	660	Red Diff.	70°	1.6	2.0	0.7	2.5	2		.20	.16
990-3050	MV5075C	Red	660	Red Diff.	85°	1.6	2.0	0.6	1.5	2		.20	.16
990-3142	MV5774C	HER	630	Red Diff.	85°	2.0	3.0	1.5	9.0	2		.20	.16
990-3106	MV5474C	Grn.	565	Grn. Diff.	85°	2.2	3.0	1.2	9.0	2		.23	.18
990-3082	MV5374C	Yell.	585	Yell. Diff.	85°	2.1	3.0	1.5	9.0	2		.23	.18

T-1 Low Profile Lens — Fig. 2

990-3052	MV5077C	Red	660	Red Diff.	180°	1.6	2.0	0.3	1.8	2		.20	.16
990-3144	MV5777C	HER	635	Red Diff.	180°	2.0	3.0	1.0	7.0	2		.20	.16
990-3108	MV5477C	Grn.	565	Grn. Diff.	180°	2.2	3.0	1.0	7.0	2		.23	.18
990-3084	MV5377C	Yell.	585	Yell. Diff.	180°	2.2	3.0	1.0	7.0	2		.20	.16

T-100 Clear Lens — Fig. 3

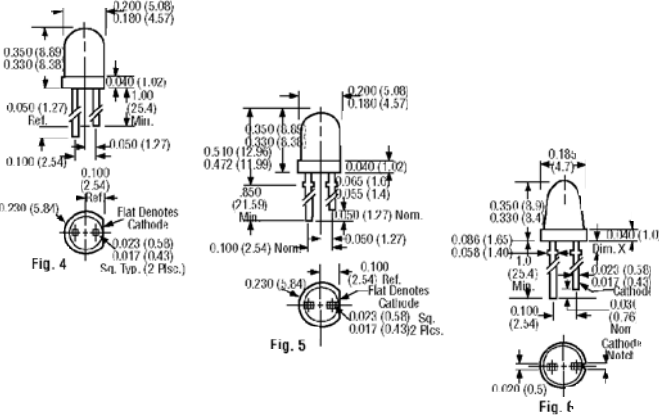
990-1020	HLMP-1320	HER	635	Pale Org. Tint	45°	2.0	3.0	6.0	12.0	1		.18	.14
990-1022	HLMP-1321	HER	635	Red Clear	45°	2.0	3.0	6.0	12.0	1		.20	.16
990-1024	HLMP-1340	HER	635	Pale Org. Tint	45°	2.2	3.0	24.0	60.0	2		.18	.14
990-3128	MV5760	HER	635	Pale Org. Tint	45°	2.0	3.0	6.0	12.0	1		.18	.14
990-3130	MV57620	HER	635	Red Clear	45°	2.0	3.0	1.5	2.0	1		.18	.14
990-3132	MV57621	HER	635	Red Clear	45°	2.0	3.0	3.0	4.0	1		.20	.16
990-3134	MV57622	HER	635	Red Clear	45°	2.0	3.0	6.0	12.0	1		.23	.18
990-1036	HLMP-1520	Grn.	565	Pale Grn. Tint	45°	2.1	3.0	6.0	12.0	2		.18	.14
990-1038	HLMP-1521	Grn.	565	Grn. Clear	45°	2.1	3.0	6.0	12.0	2		.20	.16
990-1042	HLMP-1540	Grn.	565	Pale Grn. Tint	45°	2.2	3.0	24.0	60.0	2		.18	.14
990-3098	MV5460	Grn.	565	Pale Grn. Tint	45°	2.1	3.0	6.0	12.0	2		.18	.14
990-3100	MV54624	Grn.	565	Grn. Clear	45°	2.1	3.0	6.0	12.0	2		.18	.14
990-1028	HLMP-1420	Yell.	585	Pale Yell. Tint	45°	2.1	3.0	6.0	12.0	1		.18	.14
990-1030	HLMP-1440	Yell.	585	Pale Yell. Tint	45°	2.2	3.0	24.0	60.0	2		.18	.14
990-3070	MV5360	Yell.	585	Pale Yell. Tint	45°	2.1	3.0	6.0	12.0	1		.18	.14
990-3072	MV53621	Yell.	585	Yell. Clear	45°	2.1	3.0	3.0	4.0	1		.18	.14
990-3074	MV53622	Yell.	585	Yell. Clear	45°	2.1	3.0	6.0	8.0	1		.20	.16
990-1163	HLMP-K105†	AlGaAs Red	660	Red Clear	35°	1.8	2.2	35.0	70.0	2		.25	.20
990-1176	HLMP-K640	Pure Grn.	560	Water Clear	45°	2.2	3.0	4.2	3.0	2		.23	.18

T-100 Diffused Lens — Fig. 3

990-3046	MV50640	Red	660	Red Diff.	60°	1.6	2.0	0.5	1.5	2		.18	.14
990-1014	HLMP-1300	HER	635	Red Diff.	60°	2.0	3.0	1.0	2.0	1		.20	.16
990-1016	HLMP-1301	HER	635	Red Diff.	60°	2.0	3.0	2.0	2.5	1		.23	.18
990-1018	HLMP-1302	HER	635	Red Diff.	60°	2.2	3.0	3.0	4.0	1		.25	.20
990-1026	HLMP-1385	HER	635	Red Diff.	60°	2.0	3.0	8.6	11.0	1		.23	.18
990-3136	MV57640	HER	635	Red Diff.	60°	2.0	3.0	1.0	2.0	1		.18	.14
990-3138	MV57641	HER	635	Red Diff.	60°	2.0	3.0	2.0	2.5	1		.20	.16
990-3140	MV57642	HER	635	Red Diff.	60°	2.0	3.0	3.0	4.0	1		.23	.18
990-1034	HLMP-1503	Grn.	565	Grn. Diff.	75°	2.2	3.0	2.0	5.0	2		.18	.14
990-1040	HLMP-1523	Grn.	565	Grn. Diff.	75°	2.2	3.0	6.0	10.0	2		.18	.14
990-1044	HLMP-1585	Grn.	565	Grn. Diff.	75°	2.2	3.0	4.2	8.5	1		.23	.18
990-3102	MV54643	Grn.	565	Grn. Diff.	75°	2.2	3.0	2.0	5.0	2		.18	.14
990-3104	MV54644	Grn.	565	Grn. Diff.	75°	2.2	3.0	6.0	10.0	2		.20	.16
990-3076	MV53640	Yell.	585	Yell. Diff.	70°	2.1	3.0	1.0	2.0	1		.18	.14
990-3078	MV53641	Yell.	585	Yell. Diff.	70°	2.1	3.0	1.5	3.0	1		.20	.16
990-3080	MV53642	Yell.	585	Yell. Diff.	70°	2.1	3.0	2.5	4.5	1		.23	.18
990-1032	HLMP-1485	Yell.	585	Yell. Diff.	70°	2.1	3.0	5.7	10.0	1		.23	.18
990-1162	HLMP-K101	AlGaAs Red	660	Red Diff.	60°	1.8	2.2	22.0	45.0	2		.25	.20
990-1174	HLMP-K600	Pure Grn.	555	Grn. Diff.	90°	2.1	2.7	1.0	4.5	1		.23	.18
990-1168	HLMP-K400	Soft Org.	612	Org. Diff.	90°	1.9	2.4	1.0	4.0	1		.20	.16
990-1170	HLMP-K401	Soft Org.	612	Org. Diff.	90°	1.9	2.4	2.0	5.0	1		.20	.16
990-1172	HLMP-K402	Soft Org.	612	Org. Diff.	90°	1.9	2.4	3.0	6.5	1		.23	.18

\*1:  $V_f$  and  $I_v$  @  $I_f$  = 10 mA. 2:  $V_f$  and  $I_v$  @  $I_f$  = 20 mA. †Low Current.

5 mm LED Lamps



T-1¼ Clear Lens — Fig. 4

Stock No.	Mfr.'s Type	Source Color	Wave Length $\lambda_p$ (nm)	Lens Color	Typical Viewing Angle	Forward Voltage $V_f$ (V)				Luminous Intensity $I_v$ (mcd)	Notes*	EACH	
						Typ.	Max.	Min.	Typ.			1-99	100
990-3034	MV5052	Red	660	Red Clear	72°	1.6	2.0	0.7	1.0	2		.15	.12
990-1091	HLMP-3315	HER	635	Red Clear	35°	2.2	3.0	12.0	18.0	1		.30	.24
990-1093	HLMP-3316	HER	635	Red Clear	35°	2.2	3.0	20.0	35.0	1		.30	.24
990-3011	MV3750	HER	635	Org. Clear	24°	2.2	3.0	80.0	150.0	2		.18	.14
990-3054	MV5152	HER	635	Amber Clear	28°	2.0	3.0	17.0	100.0	2		.28	.22
990-3122	MV5752	HER	635	Red Clear	28°	2.0	3.0	17.0	100.0	2		.15	.12
990-3166	MV5152	HER	635	Amber Clear	28°	2.0	3.0	17.0	100.0	2		.30	.24
990-3222	MV6752	HER	635	Red Clear	28°	2.0	3.0	17.0	100.0	2		.20	.16
990-3012	MV3450	Grn.	565	Grn. Clear	24°	2.2	3.0	80.0	150.0	2		.18	.14
990-3092	MV5452	Grn.	565	Grn. Clear	35°	2.2	3.0	12.0	25.0	2		.15	.12
990-3196	MV64520	Grn.	565	Grn. Clear	35°	2.2	3.0	12.0	25.0	2		.28	.22
990-3198	MV64521	Grn.	565	Grn. Clear	35°	2.2	3.0	30.0	100.0	2		.30	.24
990-3002	MV3350	Yell.	585	Yell. Clear	24°	2.2	3.0	80.0	150.0	2		.18	.14
990-3064	MV5352	Yell.	585	Yell. Clear	28°	2.1	3.0	10.0	90.0	2		.17	.14
990-3174	MV6352	Yell.	585	Yell. Clear	28°	2.1	3.0	10.0	90.0	2		.23	.18
990-1160	HLMP-D640	Pure Grn.	560	Water Clear	24°	2.2	3.0	6.7	60.0	2		.28	.22

T-1¼ Clear Lens with Standoff — Fig. 5

990-1092	HLMP-3750A	HER	635	Org. Clear	24°	2.2	3.0	80.0	150.0	2		.18	.14
990-1096	HLMP-3950A	Grn.	565	Grn. Clear	24°	2.2	3.0	80.0	150.0	2		.18	.14
990-1094	HLMP-3850A	Yell.	585	Yell. Clear	24°	2.2	3.0	80.0	150.0	2		.20	.16
990-1142	HLMP-D105A	AlGaAs Red	660	Red Clear	24°	1.6	2.2	100.0	240.0	2		.35	.28

T-1¼ Narrow Angle Diffused Lens — Fig. 4

990-3038	MV5054A1	Red	660	Red Diff.	24°	1.8	2.2	1.0	1.5	1		.15	.12
990-3040	MV5054A2	Red	660	Red Diff.	24°	1.8	2.2	2.0	2.5	1		.18	.14
990-3042	MV5054A3	Red	660	Red Diff.	24°	1.8	2.2	3.0	3.5	1		.21	.17
990-3058	MV5154A	HER	635	Amber Diff.	24°	2.0	2.8	10.0	25.0	2		.28	.22
990-3126	MV5754A	HER	635	Red Diff.	24°	2.0	3.0	10.0	25.0	2		.15	.12
990-3170	MV6154A	HER	635	Amber Diff.	24°	2.0	3.0	10.0	25.0	2		.30	.24
990-3240	MV6754A	HER	635	Red Diff.	24°	2.0	3.0	10.0	25.0	2		.23	.18
990-3096	MV5454A	Grn.	565	Grn. Diff.	24°	2.2	3.0	10.0	30.0	2		.15	.12
990-3218	MV6454A	Grn.	565	Grn. Diff.	24°	2.2	3.0	10.0	30.0	2		.23	.18
990-3068	MV5354A	Yell.	585	Yell. Diff.	24°	2.1	3.0	10.0	25.0	2		.15	.12
990-3192	MV6354A	Yell.	585	Yell. Diff.	24°	2.1	3.0	10.0	25.0	2		.23	.18

T-1¼ Tapered Lamps — Fig. 6

990-3022	MV5021A	Red	660	White Diff.	80°	1.65	2.0	0.5	1.6	2		.33	.26
990-3024	MV5022A	Red	660	Red Clear	80°	1.65	2.0	0.6	1.6	2		.33	.26
990-3026	MV5023A	Red	660	Red Diff.	80°	1.65	2.0	0.4	1.6	2		.33	.26
990-3028	MV5024A	Red	660	Red Diff.	40°	1.65	2.0	0.9	3.0	2		.33	.26
990-3030	MV5025A	Red	660	Red Diff.	180°	1.65	2.0	0.1	0.4	2		.33	.26
990-3032	MV5026A	Red	660	Deep Red Diff.	80°	1.65	2.0	0.1	0.6	2		.33	.26

T-1¼ Wide Angle Diffused Lens — Fig. 4

990-3036	MV5053	Red	660	Red Diff.	70°	1.7	2.2	0.5	1.6	2		.15	.12
990-3150	MV6053	Red	660	Red Diff.	70°	1.7	2.2	0.5	1.6	1		.20	.16
990-3044	MV5055	Red	660	Red Diff.	150°	1.7	2.2	0.1	3.3	2		.15	.16
990-4892	HLMF-3300	Red	635	Red Diff.	65°	2.2	3.0	2.0	3.5	2		.20	.16
990-1082	HLMF-3301	HER	635	Red Diff.	65°	2.2	3.0	4.0	7.0	2		.20	.16
990-3058	MV5553	HER	635	Amber Diff.	65°	2.0	3.0	3.0	15.0	2		.28	.22
990-3124	MV5753	HER	635	Red Diff.	65°	2.0	3.0	3.0	15.0	2		.15	.12
990-3168	MV6153	HER	635	Amber Diff.	65°	2.0	3.0	3.0	15.0	2		.30	.24
990-3224	MV6753	HER	635	Red Diff.	65°	2.0	3.0	3.0	15.0	2		.23	.18
990-3094	MV5453	Gn.	565	Gn. Diff.	65°	2.2	3.0	3.0	20.0	2		.15	.12
990-3200	MV64530	Gn.	565	Gn. Diff.	65°	2.2	3.0	3.0	20.0	2		.22	.18
990-3202	MV64531	Gn.	565	Gn. Diff.	65°	2.2	3.0	7.0	20.0	2		.28	.25
990-3065	MV5353	Yell.	585	Yell. Diff.	65°	2.1	3.0	2.5	15.0	2		.18	.14
990-3176	MV6353	Yell.	585	Yell. Diff.	65°	2.1	3.0	2.5	15.0	2		.23	.18
990-1134	HLMF-D101A	AlGaAs	560	Gn. Diff.	65°	1.8	2.2	35.0	70.0	2		.25	.20
990-1158	HLMF-D600	Pure Gn.	560	Gn. Diff.	60°	2.1	2.7	1.0	3.0	1		.23	.18
990-1158	HLMF-D400	Soft Org.	612	Org. Diff.	60°	1.9	2.4	2.1	3.5	1		.23	.18
990-1156	HLMF-D401	Soft Org.	612	Org. Diff.	60°	1.9	2.3	4.0	7.0	1		.25	.20