

Panasonic®

Surface Mount LEDs

The chip LEDs have thin, compact features available for surface mount technology. It makes super brightness, has a wide viewing angle and is suitable for compact and multi-function equipment.

Features: • Compact and thin package • Super bright and high reliability • Surface mount technology available • Wide product range **Cleaning:** • Avoid using organic solvents. The surface of the LED may change when organic solvents such as trichloroethylene and acetone come in contact with the surface of the LED.

Fig. 1 — 0402 (1005) Leadless

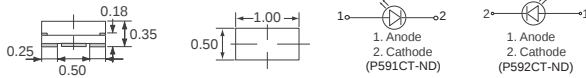


Fig. 2 — 0603 (1608) Leadless-SS Type

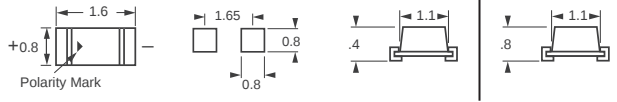


Fig. 3 — 0603 (1608) Leadless-TSS Type

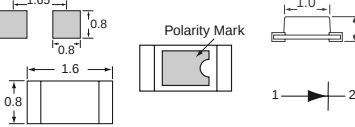


Fig. 4 — J-Lead-S Type

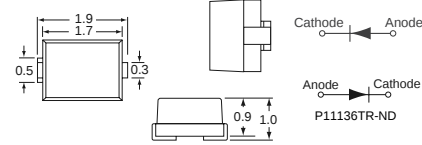


Fig. 5 — Gull Wing-S Type

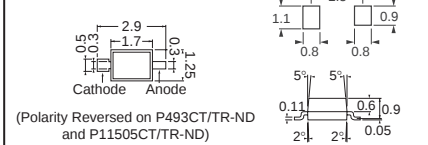


Fig.	Lighting Color	Lens	Process Tech.	Absolute Max. Ratings				Io		Rated (mA) IF	VF(V)		λP Typ.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
				(mW) PD	(mA) IF	(V) VR	(°C) Topr	(mcd) Typ.	(mcd) Min.		Typ.	Max.			1	10	100		Size	Pricing	
0402 (1005) Leadless																					
1	Yellow Green	Y/G Diffused	GaP	40	15	4	-30~85	3.7	2	10	2.03	2.6	655	P591CT-ND	.41	.38	.35	—	—	—	LNJ319G9TRA
	High Bright Red	Red Diffused	GaAlAs	40	15	3	-30~85	4.2	2.2	10	1.72	2.5	565	P592CT-ND	.41	.38	.35	—	—	—	LNJ319R9ARA
0603 (1608) Leadless Height=0.4mm																					
2A	High Bright Red	Red Diffused	GaAlAs	40	15	3	-30~85	6.7	2.2	10	1.72	2.5	655	P11461CT-ND	.21	.19	.17	P11461TR-ND	5,000	62.24/M	LNJ214R8ARA
	Orange	Red Diffused	GaAsP	40	15	3	-30~85	1	0.5	10	1.93	2.6	630	P11462CT-ND	.19	.18	.16	P11462TR-ND	5,000	57.29/M	LNJ314R8DRA
	Soft Orange	Yellow Diffused	GaAsP	40	15	3	-30~85	1	0.5	10	1.93	2.6	610	P11463CT-ND	.19	.18	.16	P11463TR-ND	5,000	57.29/M	LNJ314K8SRA
	Amber	Yellow Diffused	GaAsP	40	15	3	-30~85	1.5	0.6	10	2	2.6	590	P11464CT-ND	.19	.18	.16	P11464TR-ND	5,000	57.29/M	LNJ314K8YRA
	Yellow Green	Green Diffused	GaP	40	15	4	-30~85	5	1.8	10	2.03	2.6	565	P11465CT-ND	.18	.16	.15	P11465TR-ND	5,000	52.33/M	LNJ314G8TRA
Ultra Bright InGaAlP LED																					
2A	Ultra Bright Red	Red Diffused	InGaAlP	40	15	4	-30~85	15	8	10	1.92	2.5	645	P11466CT-ND	.31	.29	.27	P11466TR-ND	5,000	114.57/M	LNJ214R82RA
	Orange	Red Diffused	InGaAlP	40	15	4	-30~85	32	17	10	2.03	2.5	630	P11467CT-ND	.31	.29	.27	P11467TR-ND	5,000	114.57/M	LNJ314R83RA
	Soft Orange	Yellow Diffused	InGaAlP	40	15	4	-30~85	30	16	10	1.95	2.5	620	P11468CT-ND	.31	.29	.27	P11468TR-ND	5,000	114.57/M	LNJ314R88RA
	Amber	Yellow Diffused	InGaAlP	40	15	4	-30~85	21	8.7	10	1.95	2.5	615	P11469CT-ND	.31	.29	.27	P11469TR-ND	5,000	114.57/M	LNJ314K87RA
	Yellow Green	Green Diffused	InGaAlP	40	15	4	-30~85	26	14	10	2.1	2.5	595	P11470TR-ND	.31	.29	.27	P11470TR-ND	5,000	114.57/M	LNJ314K84RA
	Yellow Green	Green Diffused	InGaAlP	40	15	4	-30~85	12	6.4	10	2.03	2.5	575	P11471CT-ND	.31	.29	.27	P11471TR-ND	5,000	114.57/M	LNJ314G83RA
0603 (1608) Leadless Height=0.55mm																					
3	High Bright Red	Red Diffused	GaAlAs	50	20	3	-30~85	6.7	2.2	10	1.72	2.5	655	P11133CT-ND	.18	.17	.16	P11133TR-ND	5,000	57.29/M	LNJ212R8ARA
	Orange	Orange Diffused	GaAsP	50	20	3	-30~85	1	0.4	10	1.93	2.6	630	P11594CT-ND	.18	.16	.15	P11594TR-ND	5,000	52.33/M	LNJ312R8DRA
	Soft Orange	Yellow Diffused	GaAsP	50	20	3	-30~85	1	0.5	10	1.93	2.6	610	P11472CT-ND	.18	.16	.15	P11472TR-ND	5,000	52.33/M	LNJ312K8SRA
	Amber	Yellow Diffused	GaAsP	50	20	4	-30~85	1.5	0.6	5	2	2.6	590	P11135TR-ND	.18	.17	.16	P11135TR-ND	5,000	52.33/M	LNJ312K8YRA
	Yellow Green	Green Diffused	GaP	50	20	4	-30~85	5	1.8	5	2.03	2.6	565	P11134CT-ND	.18	.17	.16	P11134TR-ND	5,000	47.37/M	LNJ312G8TRA
	Yellow Green	Green Diffused	GaP	30	10	4	-30~85	3	1.8	10	1.9	2.4	565	P11473CT-ND	.16	.15	.13	P11473TR-ND	5,000	47.37/M	LNJ312G8LRA
Ultra Bright InGaAlP / GaN LED																					
3	Red	Red Diffused	InGaAlP	55	20	4	-30~85	15	8	10	1.92	2.5	645	P11475CT-ND	.29	.27	.24	P11475TR-ND	5,000	104.66/M	LNJ212R82RA
	Orange	Red Diffused	InGaAlP	55	20	4	-30~85	32	17	10	2.03	2.5	630	P11476CT-ND	.29	.27	.24	P11476TR-ND	5,000	104.66/M	LNJ312R83RA
	Orange	Red Diffused	InGaAlP	55	20	4	-30~85	30	16	10	1.95	2.5	620	P11477CT-ND	.29	.27	.24	P11477TR-ND	5,000	104.66/M	LNJ312R88RA
	Soft Orange	Yellow Diffused	InGaAlP	55	20	4	-30~85	21	7	10	1.95	2.5	615	P11478CT-ND	.29	.27	.24	P11478TR-ND	5,000	104.66/M	LNJ312K87RA
	Amber	Yellow Diffused	InGaAlP	55	20	4	-30~85	26	14	10	2.1	2.5	595	P11479CT-ND	.29	.27	.24	P11479TR-ND	5,000	104.66/M	LNJ312K84RA
	Yellow Green	Green Diffused	InGaAlP	55	20	4	-30~85	12	6.4	20	2.03	2.5	575	P11480CT-ND	.29	.27	.24	P11480TR-ND	5,000	104.66/M	LNJ312G83RA
	Pure Green	White Diffused	GaN	40	10	5	-25~85	34	10.3	5	3	3.7	525	P11481CT-ND	2.29	2.15	2.01	P11481TR-ND	5,000	949.58/M	LNJ312W8WRA
Blue	White Diffused	GaN	40	10	5	-25~85	8.5	3.2	5	3.2	3.7	470	P11482CT-ND	2.29	2.15	2.01	P11482TR-ND	2,000	949.58/M	LNJ312W8BRA	
	White	White Diffused	GaN	40	10	5	-30~85	76	47	10	3.2	3.7	—	P12023CT-ND	2.70	2.53	2.29	P12023TR-ND	5,000	996.40/M	LNJ012X8BRA
0603 (1608) Leadless Height=0.8mm																					
2B	High Bright Red	Red Diffused	GaAlAs	50	20	3	-30~85	6.7	2.2	10	1.72	2.5	660	P524CT-ND	.18	.17	.16	P524TR-ND	4,000	62.79/M	LNJ208R8ARA
	Orange	Orange Diffused	GaAsP	30	10	3	-30~85	1.1	0.4	5	1.8	2.4	630	P523CT-ND*	.18	.17	.16	P523TR-ND*	4,000	57.29/M	LNJ308R8ERA
	Soft Orange	Yellow Diffused	GaAsP	50	20	3	-30~85	1	0.4	10	1.93	2.6	610	P11132CT-ND	.18	.17	.16	P11132TR-ND	4,000	57.29/M	LNJ308K8SRA
	Amber	Yellow Diffused	GaAsP	50	20	4	-30~85	1.5	0.6	10	2	2.6	590	P11129CT-ND	.18	.17	.16	P11129TR-ND	4,000	57.29/M	LNJ308K8YRA
	Amber	Yellow Diffused	GaAsP	30	10	4	-30~85	0.9	0.4	5	1.9	2.4	590	P522CT-ND*	.18	.17	.16	P522TR-ND*	4,000	57.29/M	LNJ308K82RA
	Yellow Green	Green Diffused	GaP	50	20	4	-30~85	5	1.8	10	2.03	2.6	565	P525CT-ND	.18	.17	.16	P525TR-ND	4,000	52.33/M	LNJ308G8TRA
	Yellow Green	Green Diffused	GaP	30	10	4	-30~85	2.1	0.7	5	1.9	2.4	565	P521CT-ND*	.18	.17	.16	P521TR-ND*	4,000	52.33/M	LNJ308G8LRA
	Green	Green Diffused	GaP	60	20	4	-25~85	2.1	1.1	10	2.1	2.6	565	P11484CT-ND	.16	.15	.13	—	—	—	LNJ308G84RA
	Pure Green	Green Diffused	GaP	50	20	4	-25~85	0.7	0.25	10	2.03	2.6	555	P11485CT-ND	.19	.18	.16	P11485TR-ND	4,000	62.79/M	LNJ308G8PRA
Ultra Bright InGaAlP LED																					
2B	Ultra Bright Red	Red Diffused	InGaAlP	55	20	4	-25~85	15	8	10	1.92	2.5	645	P11486CT-ND	.29	.27	.24	P11486TR-ND	4,000	115.12/M	LNJ208R82RA
	Orange	Red Diffused	InGaAlP	55	20	4	-25~85	32	17	10	2.03	2.5	630	P11487CT-ND	.29	.27	.24	P11487TR-ND	4,000	115.12/M	LNJ308R83RA
	Orange	Red Diffused	InGaAlP	50	20	4	-25~85	6.5	2.5	10	1.9	2.3	620	P11131CT-ND	.29	.27	.25	P11131TR-ND	4,000	115.12/M	LNJ308R88RA
	Soft Orange	Yellow Diffused	InGaAlP	55	20	4	-25~85	21	7	10	1.95	2.5	615	P11488CT-ND	.29	.27	.24	P11488TR-ND	4,000	115.12/M	LNJ308K87RA
	Amber	Yellow Diffused	InGaAlP	55	20	4	-25~85	10.5	4	10	2	2.6	595	P11130CT-ND	.29	.27	.25	P11130TR-ND	4,000	115.12/M	LNJ308K84RA
	Yellow Green	Green Diffused	InGaAlP	55	20	4	-25~85	12	6.4	10	2.03	2.5	575	P11489CT-ND	.29	.27	.24	P11489TR-ND	4,000	115.12/M	LNJ308G83RA
0805 (2012) J-Lead S-J Type 2mm pitch Taping																					
4	Red	Red Diffused	GaP	60	20	4	-25~85	0.4	0.15	10	2.03	2.6	700	P11490CT-ND	.18	.17	.15	P11490TR-ND	6,000	54.53/M	LNJ206R5RXX
	High Bright Red	Red Diffused	GaAlAs	60	20	3	-25~85	5	1.7	10	1.72	2.5	660	P11136CT-ND	.18	.17	.16	P11136TR-ND	6,000	62.24/M	LNJ206R5SXX
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-25~85	0.8	0.3	10	1.93	2.6	610	P11491CT-ND	.19	.18	.16	P11491TR-ND	6,000	57.29/M	LNJ306K5ARA
	Amber	Yellow Diffused	GaAsP	60	20	4	-25~85	1	0.4	10	2	2.6	590	P11492CT-ND	.19	.18	.16	P11492TR-ND	6,000	57.29/M	LNJ306K5YXX
	Yellow Green	Green Diffused	GaP	60	20	4	-25~85	2.6	0.9	10	2.03	2.6	555	P11137CT-ND	.18	.17	.16	P11137TR-ND	6,000	54.53/M	LNJ306G5VXX
	Pure Green	Green Diffused	GaP	60	20	4	-25~85	0.65	0.25	10	2.03	2.6	555	P11493CT-ND	.21	.19	.17	P11493TR-ND	6,000	62.24/M	LNJ306G5PXX
Ultra Bright InGaAlP LED																					
4	Orange	Red Diffused	InGaAlP	50	20	4	-25~85	8.5	2	10	1.9	2.3	620	P11494CT-ND	.31	.29	.27	P11494TR-ND	6,000	114.57/M	LNJ306R5BXX
	Amber	Yellow Diffused	InGaAlP	50	20	4	-25~85	8.5	3.5	10	2.3	2.3	595	P11495CT-ND	.31	.29	.27	P11495TR-ND	6,000	114.57/M	LNJ306K54RXX
0805 (2012) J-Lead S-J Type 4mm pitch Taping																					
4	Red	Red Diffused	GaP	60	20	4	-25~85	0.4	0.15	10	2.03	2.6	700	P11496CT-ND	.18	.17	.15	P11496TR-ND	3,000	59.49/M	LNJ206R5RUX
	High Bright Red	Red Diffused	GaAlAs	60	20	3	-25~85	5	1.7	5	1.72	2.5	660	P11497CT-ND	.21	.19	.17	P11497TR-ND	3,000	68.30/M	LNJ206R5AUX
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-25~85	0.8	0.3	10	1.93	2.6	610	P11498CT-ND	.19	.18	.16	P11498TR-ND	3,000	62.79/M	LNJ306K5SUX
	Amber	Yellow Diffused	GaAsP	60	20	4	-25~85	1	0.4	10	2	2.6	590	P11499CT-ND	.19	.18	.16	P11499TR-ND	3,000	62.79/M	LNJ306K5YUX
	Yellow Green	Green Diffused	GaP	60	20	4	-25~85	3.5	1.35	10	2.03	2.6	565	P11500CT-ND	.18	.17	.15	P11500TR-ND	3,000	59.49/M	LNJ306G5UUX
	Pure Green	Green Diffused	GaP	60	20	4	-25~85	0.65	0.25	10	2.03	2.6	555	P11501CT-ND	.21	.19	.17	P11501TR-ND	3,000	68.30/M	LNJ306G5PUX
Ultra Bright InGaAlP / GaN LED																					
4	Orange	Red Diffused	InGaAlP	50	20	4	-25~85	8.5	2	10	1.9	2.3	620	P11502CT-ND	.31	.29	.27	P11502TR-ND	3,000	126.14/M	LNJ306R5BUX
	Amber	Yellow Diffused	InGaAlP	50	20	4	-25~85	8.5	3.5	10	2	2.3	595	P11503CT-ND	.31	.29	.27	P11503TR-ND	3,000	126.14/M	LNJ306K54UX
	Blue	White Diffused	GaN	40	10	5	-25~85	5.5	2	5	3.2	3.7	470	P11504CT-ND	2.29	2.15	2.01	P11504TR-ND	3,000	1043.77/M	LNJ906W5BUX
0805 (2012) Gull Wing S-GW Type 2mm pitch Taping																					
5	Red	Red Diffused	GaP	60	20	4	-25~85	0.4	0.15	10	2.03	2.6	700	P490CT-ND	—	.17	.16	P490TR-ND	6,000	54.53/M	LN1271RTR
	Ultra Bright Red	Red Diffused	GaAlAs	60	20	3	-25~85	5	1.7	10	1.72	2.5	660	P493CT-ND	—	.23	.21	P493TR-ND	6,000	62.24/M	LN1271RALTR
	Orange	Red Diffused	GaAsP	30	10	3	-30~85	1	0.4	5	1.8	2.4	630	P518CT-ND	.18	.17	.16	P518TR-ND	6,000	65.5/M	LN1871SRTR

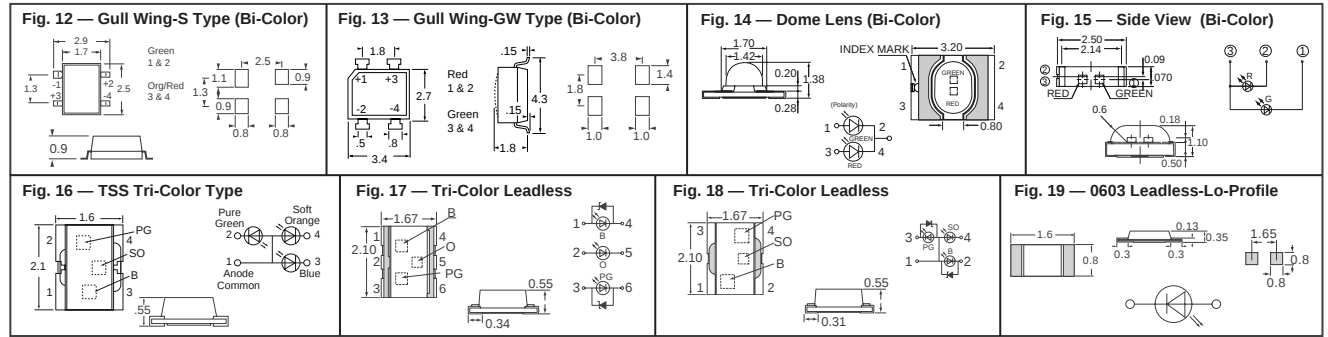


Fig.	Lighting Color	Lens	Process Tech.	Absolute Max. Ratings				Io		Rated (mA)	VF(V)		λP Typ.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
				(mW)	(mA)	(V)	(°C) Topr	(mcd)	(mcd)		Typ.	Max.			1	100	Size		Pricing		
				Side Firing LED with Reflective Case																	
8	Red	Clear	GaP	60	20	4	-25-80	0.7	0.25	10	2.03	2.6	700	P11138CT-ND	.22	.21	.19	P11138TR-ND	3,000	89.78/M	LNJ210C6RRA
	High Bright Red	Clear	GaAlAs	60	20	3	-25-80	8	2.6	10	1.72	2.5	660	P11139CT-ND	.22	.21	.19	P11139TR-ND	3,000	100.25/M	LNJ210C6ARA
	Orange	Red Clear	GaAsP	60	20	3	-25-80	2.5	0.8	10	1.93	2.6	630	P519CT-ND	.21	.20	.18	P519TR-ND	3,000	94.74/M	LNJ810L6DRA
	Soft Orange	Red Clear Non Diff.	GaAsP	60	20	3	-25-85	1.8	0.75	10	1.93	2.6	610	P11580CT-ND	.29	.27	.24	P11580TR-ND	3,000	94.74/M	LNJ810L6SRA
	Amber	Yellow Clear	GaAsP	60	20	4	-25-80	2.5	0.8	10	2	2.6	590	P11140CT-ND	.22	.21	.19	P11140TR-ND	3,000	94.74/M	LNJ410Q6VRA
	Yellow Green	Clear	GaP	60	20	4	-25-80	8	3	10	2.03	2.6	565	P520CT-ND	.21	.20	.18	P520TR-ND	3,000	89.78/M	LNJ310M6URA
	Green	Clear Non Diffused	GaP	60	20	4	-25-85	3.2	1.7	10	2.1	2.6	560	P11581CT-ND	.28	.25	.23	P11581TR-ND	3,000	89.78/M	LNJ310C6ARA
	Pure Green	Clear Non Diffused	GaP	60	20	4	-25-85	1.1	0.6	10	2.03	2.6	555	P11582CT-ND	.31	.28	.25	P11582TR-ND	3,000	100.25/M	LNJ310C6PRA
	White	White Diffused	GaN	120	30	5	-25-80	260	180	10	3.4	3.9	—	P12024CT-ND	3.18	2.97	2.69	P12024TR-ND	3,000	1288.88/M	LNJ010X6PRA
Ultra Bright InGaAlP LED																					
8	Ultra Bright Red	Clear Non Diffused	InGaAlP	55	20	4	-25-85	23	12	10	1.92	2.5	645	P11583CT-ND	.40	.38	.34	P11583TR-ND	3,000	161.39/M	LNJ210C62RA
	Orange	Clear Non Diffused	InGaAlP	55	20	4	-25-85	48	25	10	2.03	2.5	630	P11584CT-ND	.40	.38	.34	P11584TR-ND	3,000	161.39/M	LNJ810C63ARA
	Soft Orange	Clear Non Diffused	InGaAlP	55	20	4	-25-85	45	24	10	1.95	2.5	620	P11585CT-ND	.40	.38	.34	P11585TR-ND	3,000	161.39/M	LNJ810C68ARA
	Amber	Clear Non Diffused	InGaAlP	50	20	4	-25-80	30	12	10	1.95	2.5	615	P11586CT-ND	.40	.38	.34	P11586TR-ND	3,000	161.39/M	LNJ810C67ARA
	Yellow Green	Clear Non Diffused	InGaAlP	50	20	4	-25-80	22.5	8.5	10	2	2.5	595	P11587CT-ND	.40	.38	.34	P11587TR-ND	3,000	161.39/M	LNJ410C64ARA
	Yellow Green	Clear Non Diffused	InGaAlP	50	20	4	-25-80	15	7.7	10	2	2.5	575	P11588CT-ND	.40	.38	.34	P11588TR-ND	3,000	161.39/M	LNJ310C63ARA
Gull Wing GW Type with Reflective Case																					
9	Red	Clear	GaP	60	20	4	-25-80	1.4	0.5	15	2.2	2.8	700	P503CT-ND	.18	.17	.16	P503TR-ND	2,000	70.50/M	LNJ2161CTR
	High Bright Red	Clear	GaAlAs	60	20	3	-25-80	12	5	20	1.8	2.6	660	P513CT-ND	.24	.23	.21	P513TR-ND	2,000	81.52/M	LNJ2161CALTR
	Orange	Clear	GaAsP	60	20	3	-25-80	5	1.9	20	2.1	2.8	630	P505CT-ND	.18	.17	.16	P505TR-ND	2,000	76.01/M	LNJ8161CTR
	Amber	Clear	GaAsP	60	20	4	-25-80	4.5	1.6	20	2.2	2.8	590	P512CT-ND	.19	.17	.16	P512TR-ND	2,000	76.01/M	LNJ4161CTR
	Yellow Green	Clear	GaP	60	20	4	-25-80	7.5	2.8	20	2.2	2.8	565	P504CT-ND	.18	.17	.16	P504TR-ND	2,000	70.50/M	LNJ3161CTR
	High Bright Yellow Green	Clear	GaP	60	20	4	-25-80	15	8	20	2.2	2.8	565	P514CT-ND	.21	.20	.18	P514TR-ND	2,000	70.50/M	LNJ361C3UR01
Ultra Bright InGaAlP LED																					
9	Amber	Clear	InGaAlP	50	20	4	-25-80	18	6.5	10	2	2.3	595	P11128CT-ND	.32	.30	.27	P11128TR-ND	2,000	152.02/M	LNJ461C34RA
1206 (3216) J-Lead J Type with Reflective Case																					
10	Red	Clear	GaAsP	45	15	4	-25-80	1.2	0.45	10	2.1	2.8	700	P500CT-ND	.18	.17	.16	P500TR-ND	3,000	70.51/M	LNJ251CTR
	High Bright Red	Clear	GaAlAs	45	15	3	-25-80	9	3.3	10	1.75	2.6	660	P11126CT-ND	.24	.23	.21	P11126TR-ND	3,000	81.52/M	LNJ251CALTR
	Orange	Clear	GaAsP	45	15	3	-25-80	3.5	1.3	10	0.05	2.8	630	P502CT-ND	.18	.17	.16	P502TR-ND	3,000	76.01/M	LNJ851CTR
	Amber	Clear	GaAsP	45	15	4	-25-80	2.2	0.8	10	2.1	2.8	590	P511CT-ND	.18	.17	.16	P511TR-ND	3,000	76.01/M	LNJ451CTR
	Yellow Green	Clear	GaP	45	15	4	-25-80	5	1.9	10	2.1	2.8	565	P501CT-ND	.18	.17	.16	P501TR-ND	3,000	70.51/M	LNJ351CTR
Ultra Bright GaN LED																					
10	Blue	Clear	GaN	40	10	5	-25-80	9	3	5	3.2	3.7	470	P11127CT-ND	2.11	1.94	1.76	P11127TR-ND	3,000	1043.77/M	LNJ951C4BRA
	Pure Green	Clear	GaN	40	10	5	-25-80	6	3	5	3.0	3.7	525	P628CT-ND	2.11	1.94	1.76	P628TR-ND	3,000	1043.77/M	LNJ651C4WRA
Leadless TSS: Type Bi-Color																					
11	Yellow Green	White Diffused	GaP	60	20	4	-30-85	5	1.8	10	2.03	2.6	565	P11142CT-ND	.44	.41	.37	P11142TR-ND	5,000	93.64/M	LNJ115W8ARA
	Orange	White Diffused	GaAsP	60	20	3	-30-85	1	0.4	10	1.93	2.6	630	P11143CT-ND	.44	.41	.37	P11143TR-ND	5,000	103.55/M	LNJ115W8PRA
	High Bright Red	White Diffused	GaAlAs	50	20	3	-30-85	6.7	2.2	10	1.72	2.5	655	P11144CT-ND	.61	.57	.52	P11144TR-ND	5,000	246.76/M	LNJ115W88RA
Ultra Bright InGaAlP / GaN LED Combination																					
11	Yellow Green	White Diffused	GaP	60	20	4	-30-85	5	1.8	10	2.03	2.6	565	P11144CT-ND	.61	.57	.52	P11144TR-ND	5,000	246.76/M	LNJ115W88RA
	Amber	White Diffused	InGaAlP	55	20	4	-30-85	21	7	10	1.95	2.5	615	P11591CT-ND	.67	.63	.57	P11591TR-ND	5,000	246.76/M	LNJ115W89RA
	Yellow Green	White Diffused	InGaAlP	55	20	4	-30-85	21	7	10	1.95	2.5	615	P11591CT-ND	.67	.63	.57	P11591TR-ND	5,000	246.76/M	LNJ115W89RA
	Soft Orange	White Diffused	InGaAlP	55	20	4	-30-85	21	7	10	1.95	2.5	615	P11591CT-ND	.67	.63	.57	P11591TR-ND	5,000	246.76/M	LNJ115W89RA
	Pure Green	White Diffused	GaN	40	10	5	-30-85	34	12.9	5	3	3.7	525	P11590CT-ND	3.10	2.90	2.71	P11590TR-ND	5,000	1283.92/M	LNJ115W86RA
	High Bright Red	White Diffused	GaAlAs	55	20	3	-30-85	6.7	2.8	10	1.72	2.5	655	P11590CT-ND	3.10	2.90	2.71	P11590TR-ND	5,000	1283.92/M	LNJ115W86RA
	Blue	White Diffused	GaN	40	10	5	-30-85	8.5	4	5	3.2	3.7	470	P11589CT-ND	3.10	2.90	2.71	P11589TR-ND	5,000	1283.92/M	LNJ115W8HRA
	High Bright Red	White Diffused	GaAlAs	55	20	4	-30-85	6.7	2.8	10	1.72	2.5	655	P11589CT-ND	3.10	2.90	2.71	P11589TR-ND	5,000	1283.92/M	LNJ115W8HRA
Pure Green	White Diffused	GaN	40	10	5	-30-85	34	10.3	5	3	3.7	525	P11145CT-ND	3.18	2.92	2.66	P11145TR-ND	5,000	1283.92/M	LNJ115W8VRA	
Pure Soft Orange	White Diffused	InGaAlP	55	20	4	-30-85	21	7	10	1.95	2.5	615	P11145CT-ND	3.18	2.92	2.66	P11145TR-ND	5,000	1283.92/M	LNJ115W8VRA	
S-GW Gull Wing Type Bi-Color																					
12	High Bright Yellow Green	White Diffused	GaP	60	20	4	-25-85	5	3	10	2.03	2.6	565	P526CT-ND	.41	.38	.35	P526TR-ND	3,000	130.54/M	LNJ107W5PRW
	High Bright Red	White Diffused	GaAlAs	60	20	3	-25-85	5	3	10	1.72	2.5	660	P526CT-ND	.41	.38	.35	P526TR-ND	3,000	130.54/M	LNJ107W5PRW
	Yellow Green	White Diffused	GaP	60	20	4	-25-85	5	3	10	2.03	2.6	565	P526CT-ND	.41	.38	.35	P526TR-ND	3,000	130.54/M	LNJ107W5PRW
	Yellow Green	White Diffused	GaAsP	60	20	3	-25-85	2.6	0.9	10	2.03	2.6	630	P515CT-ND	.41	.38	.35	P515TR-ND	3,000	119.53/M	LNJ107W5ARA1
Gull Wing Type Bi-Color with Reflective Case																					
13	Green	Clear	GaP	45	15	4	-25-80	4	1.5	10	2.05	2.8	650	P507CT-ND	.41	.38	.35	P507TR-ND	1,000	141.00	LNJ2162C13TR
	Red	Clear	GaAsP	45	15	3	-25-80	1.8	0.65	10	2	2.8	650	P507CT-ND	.41	.38	.35	P507TR-ND	1,000	141.00	LNJ2162C13TR
	Pure Green	Clear	GaAsP	45	15	3	-25-65	2.5	1.2	10	2.05	2.8	555	P11147CT-ND	.44	.41	.37	P11147TR-ND	1,000	141.00	LNJ2162C68TR
	Orange	Clear	GaAsP	45	15	3	-25-65	2.1	0.8	10	1.95	2.8	630	P11147CT-ND	.44	.41	.37	P11147TR-ND	1,000	141.00	LNJ2162C68TR
Dome Lens Leadless Bi-Color LED																					
14	Yellow/Green	White Diffused	GaP	60	20	4	-30-85	10	5	10	2.03	2.6	565	P594CT-ND	.47	.44	.40	P594TR-ND	2,500	208.21/M	LNJ121W84RA
Side View Smaller Size Leadless Bi-Color LED																					
15	Yellow/Green	White Diffused	GaP	60	20	4	-30-85	5	1.8	10	2.03	2.6	565	P593CT-ND	.47	.44	.40	P593TR-ND	4,000	208.21/M	LNJ123W8PRZ
	High Bright Red	White Diffused	GaAlAs	50	20	3	-30-85	4	1.5	10	1.72	2.5	645	P593CT-ND	.47	.44	.40	P593TR-ND	4,000	208.21/M	LNJ123W8PRZ
Tri-Color Leadless LED Ultra Bright LED Combination																					
16	Blue	White Diffused	InGaN	40	10	5	-30-85	8.5	3.2	5	3.2	3.7	470	P11146CT-ND	6.12	5.62	5.11	P11146TR-ND	2,000	2496.78/M	LNJ171W80RA
	Pure Green	White Diffused	InGaN	40	10	5	-30-85	34	10.3	5	3	3.7	525	P11146CT-ND	6.12	5.62	5.11	P11146TR-ND	2,000	2496.78/M	LNJ171W80RA
	Soft Orange	White Diffused	InGaAlP	55	20	4	-30-85	23	7	10	1.95	2.5	615	P11146CT-ND	6.12	5.62	5.11	P11146TR-ND	2,000	2496.78/M	LNJ171W80RA
17	Blue	White Diffused	GaN	65	15	4	-30-85	35	10	5	3.1	3.7	470	P11592CT-ND	5.77	5.41	5.05	P11592TR-ND	2,000	2630.62/M	LNJ171W83RAS
	Pure Green	White Diffused	GaN	65	15	4	-30-85	85	50	5	3.1	3.7	525	P11592CT-ND	5.77	5.41	5.05	P11592TR-ND	2,000	2630.62/M	LNJ171W83RAS
	Orange	White Diffused	InGaAlP	70	20	4	-30-85	45	15	10	2	2.5	630	P11592CT-ND	5.77	5.41	5.05	P11592TR-ND	2,000	2630.62/M	LNJ171W83RAS
18	Blue	White Diffused	GaN	65	15	4	-30-85	30	18	5	3.1	3.7	470	P11593CT-ND	5.77	5.41	5.05	P11593TR-ND	2,000	2630.62/M	LNJ171W80RA1
	Pure Green	White Diffused	GaN	65	15	4	-30-85	85	50	5	3.1	3.7	525	P11593CT-ND	5.77	5.41	5.05	P11593TR-ND	2,000	2630.62/M	LNJ171W80RA1
	Soft Orange	White Diffused	InGaAlP	70	20	4	-30-85	45	20	10	1.95	2.5	615	P11593CT-ND	5.77	5.41	5.05	P11593TR-ND	2,000	2630.62/M	LNJ171W80RA1
0603 Leadless LED Ultra Bright LED Profile																					
19	White Light	White Diffused	GaN	27	7	5	-30-85	25	13	5	3.1	3.7	—	P12022CT-ND	2.70	2.53	2.29	P12022TR-ND	5,000	996.40/M	LNJ026X8BRA