

Fig.	Size (mm)	Chip			Lens Color	Luminous Intensity (Typ.)		Viewing Angle	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		OPTeK Technology Part No.
		Material	Emitted Color	Dominant Wavelength (nm)		(mcd)	@IF(mA)			1	25	100		Qty.	Pricing	
Top View Surface Mount with Domed Lens — Package: PLCC4																
13	—	AlInGaP	Amber	591	Water Clear	1650	50	60°	365-1207-1-ND	.85	.55	.47	365-1207-2-ND	700	273.00	OVSABLCR8
		AlInGaP	Red-Orange	618	Water Clear	2800	50	60°	365-1211-1-ND	.85	.55	.47	365-1211-2-ND	700	273.00	OVSABLCR8
		AlInGaP	Red	628	Water Clear	900	50	60°	365-1214-1-ND	.85	.55	.47	365-1214-2-ND	700	273.00	OVSABLCR8
Round — High Brightness																
14	5	InGaN	Blue	470	Water Clear	1350	20	30°	365-1180-ND	.72	.52	.42	—	—	—	OVLFB3C7
		InGaN	Green	525	Water Clear	5200	20	30°	365-1181-ND	1.13	.82	.66	—	—	—	OVLFG3C7
		AlInGaP	Yellow	589	Water Clear	5700	20	30°	365-1183-ND	.44	.32	.26	—	—	—	OVLFY3C7
		AlInGaP	Red	623	Water Clear	5000	20	30°	365-1182-ND	.44	.32	.26	—	—	—	OVLFR3C7
Round — High Intensity																
15	5	InGaN	Blue	470	Water Clear	3200	20	6°	365-1184-ND	.61	.44	.36	—	—	—	OVLGBC6B9
		InGaN	Blue-Green	505	Water Clear	8000	20	6°	365-1185-ND	.69	.50	.40	—	—	—	OVLGC6B9
		AlInGaP	Yellow	589	Water Clear	20000	20	6°	365-1190-ND	.19	.14	.12	—	—	—	OVLGYC6B9
		AlInGaP	Red	631	Water Clear	10000	20	6°	365-1189-ND	.19	.14	.12	—	—	—	OVLGSC6B9
Cylindrical — High Intensity																
16	5	InGaN	Blue	470	Water Clear	300	20	85°	365-1201-ND	.72	.52	.42	—	—	—	OVLB8C7
		InGaN	Green	525	Water Clear	670	20	85°	365-1202-ND	1.13	.82	.66	—	—	—	OVLG8C7
		AlInGaP	Yellow	589	Water Clear	650	20	85°	365-1204-ND	.44	.32	.26	—	—	—	OVLV8C7
		AlInGaP	Red	623	Water Clear	570	20	85°	365-1203-ND	.44	.32	.26	—	—	—	OVLV8C7
Super Flux 4-Pin																
17	7.6	InGaN	Blue	470	Water Clear	850	30	60°	365-1164-ND	.83	.60	.48	—	—	—	OVSFB6C8
		InGaN	Green	527	Water Clear	2500	30	60°	365-1165-ND	1.10	.80	.64	—	—	—	OVSFG6C8
		AlInGaP	Amber	591	Water Clear	5000	70	100°	365-1163-ND	.55	.40	.32	—	—	—	OVSFA6C8
		AlInGaP	Red/Orange	618	Water Clear	4500	70	40°	365-1166-ND	.61	.44	.36	—	—	—	OVSF4C8
		AlInGaP	Red	624	Water Clear	4500	70	100°	365-1167-ND	.50	.36	.29	—	—	—	OVSFR6C8
		InGaN	White	—	Water Clear	1200	30	60°	365-1168-ND	1.21	.88	.71	—	—	—	OVSFW6C8

Full Color (RGB) Surface Mount

Fig.	Lens Color	IV (mcd)			Viewing Angle	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		OPTeK Technology Part No.	
		@IF(mA)	Red	Green			Blue	1	25		100	Qty.		Pricing
Top-View Chip														
18	Water Clear	20	100	300	80	110°	365-1230-1-ND	3.12	2.08	1.82	—	—	OVSTRGBAC6	
19	Water Clear	20	180	550	152	Multiple	365-1233-1-ND	3.72	2.48	2.17	—	—	OVSTRGBLC6	
20	Water Clear	20	53	165	46	Multiple	365-1232-1-ND	4.03	2.61	2.24	365-1232-2-ND	1,000	1798.00	OVSTRGBFC6
PLCC4														
21	Water Clear	20	300	450	110	120°	365-1212-1-ND	2.47	1.60	1.37	365-1212-2-ND	2,000	1102.00/M	OVSARGB3R8
PLCC6														
22	Water Clear	50	1000	900	280	120°	365-1231-1-ND	4.65	3.01	2.58	365-1231-2-ND	900	1930.50	OVSTRGBBCR8
1204														
23	White Diffused	20	125	300	75	150°	365-1410-1-ND NEW!	1.20	.78	.67	365-1410-2-ND NEW!	2,000	536.50/M	OVSRRGBCC3

White InGaN Surface Mount

Fig.	Package	Chip			Luminous Intensity (Typical)		Viewing Angle	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		OPTeK Technology Part No.
		Material	Emitted Color	Lens Color	(mcd)	@IF(mA)			1	25	100		Qty.	Pricing	
24	PLCC4	InGaN	White	Water Clear	1900	20	120°	365-1215-1-ND	3.83	2.56	2.24	365-1215-2-ND	2,000	1786.40/M	OVSABCR9

1 Watt Cup Series

OPTeK Lendum Solid State Lighting products package the highest quality LED chips. Typically, the lumen output of these can be as high as 70% after 50,000 hours of operation. That is, the percentage of the initial light output still being

emitted after a specified operating time. This prediction is based on specific test results and tests on similar materials, and relies on strict observation of the design limits and ratings.

Specifications:

• Input Current: 1.0A • Junction Temperature: T_J = 130°C • Viewing Angle at half maximum intensity: 135°

Fig.	Mounting Type	λD (nm) Typical	Emitted Color	Typical I _v /flux (lm)	Forward Voltage (V)			Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 1,000	OPTeK Technology Part No.
					Minimum	Typical	Maximum		1	25	100			
25	Flush	—	Amber	38	1.9	2.3	2.6	365-1347-1-ND	3.77	2.44	2.09	365-1347-2-ND	1682.00	OVTL01LGAA
			Blue	15	2.9	3.4	3.7	365-1348-1-ND	4.29	2.78	2.38	365-1348-2-ND	1914.00	OVTL01LGAB
			Green	52	3.2	3.6	4.0	365-1349-1-ND	4.29	2.78	2.38	365-1349-2-ND	1914.00	OVTL01LGAG
			Red	53	1.9	2.3	2.6	365-1350-1-ND	3.77	2.44	2.09	365-1350-2-ND	1682.00	OVTL01LGAR
			Cool White	50	2.9	3.4	3.7	365-1351-1-ND	4.55	2.94	2.52	365-1351-2-ND	2030.00	OVTL01LGAW
			Daylight White	45	2.9	3.4	3.7	365-1352-1-ND	4.55	2.94	2.52	365-1352-2-ND	2030.00	OVTL01LGAWD
			Warm White	30	2.9	3.4	3.7	365-1353-1-ND	4.55	2.94	2.52	365-1353-2-ND	2030.00	OVTL01LGAWW
	Standard	—	Amber	38	1.9	2.3	2.6	365-1354-1-ND	3.77	2.44	2.09	365-1354-2-ND	1682.00	OVTL01LGAAS
			Blue	15	2.9	3.4	3.7	365-1355-1-ND	4.29	2.78	2.38	365-1355-2-ND	1914.00	OVTL01LGABS
			Green	52	3.2	3.6	4.0	365-1356-1-ND	4.29	2.78	2.38	365-1356-2-ND	1914.00	OVTL01LGAGS
			Red	53	1.9	2.3	2.6	365-1357-1-ND	3.77	2.44	2.09	365-1357-2-ND	1682.00	OVTL01LGARS
			Cool White	50	2.9	3.4	3.7	365-1358-1-ND	4.55	2.94	2.52	365-1358-2-ND	2030.00	OVTL01LGAWS
			Daylight White	45	2.9	3.4	3.7	365-1359-1-ND	4.55	2.94	2.52	365-1359-2-ND	2030.00	OVTL01LGAWDS
			Warm White	30	2.9	3.4	3.7	365-1360-1-ND	4.55	2.94	2.52	365-1360-2-ND	2030.00	OVTL01LGAWWS

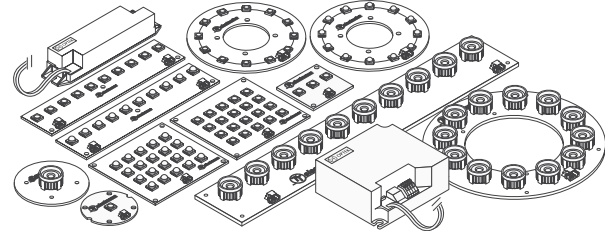
LED Design Kit

Each kit contains three LED drivers to power the VLED assemblies. The assemblies in the LED design kit feature OPTeK's OVSPxBCR4 Series 1-Watt LEDs. The energy efficient packaged LEDs offer high luminance and a long operating lifespan. Available with yellow, blue, green, red and white LEDs. The 1-Watt LEDs offer a full 120° viewing angle and an ultra-low board-mounted profile.

Kit includes (1 each):

- LD350: Power cube 350mA with 110 VAC power cord
- LD700: Power cube 700mA with 110 VAC power cord
- LD1400: Power cube 1400mA with 110 VAC power cord
- OPA729: Linear 10/1W LED (Power with LD700)
- OPA730: Round Flood 12/1W LED (Power with LD700)
- OPA731: Square Flood 20/1W LED (Power with LD1400)
- OPA733R: Round Spot 1W Red LED (Power with LD350)
- OPA733Y: Round Spot 1W Yellow LED (Power with LD350)
- OPA733G: Round Spot 1W Green LED (Power with LD350)
- OPA733B: Round Spot 1W Blue LED (Power with LD350)
- OPA733W: Round Spot 1W White LED (Power with LD350)
- OPA739: Square 3/1W LED (Power with LD350)
- OPA740: Linear with Lens 10/1W LED (Power with LD700)
- OPA741: Ring with Lens 12/1W LED (Power with LD700)
- OPA742: Round Spot with Lens 1W LED (Power with LD350)

365-1362-ND\$650.00



(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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