Kingbright SMD (Surface-Mount Device) LEDs are energy efficient with excellent intensity performances. We have a complete selection of SMDs in variety of sizes, viewing angles, color combinations and light outputs to fulfill all design needs.



O3 / Low Current SMD LED

OO / High Temperature SMD LED 1 () / Top-Emitting Chip SMD LED

14/ Top-Emitting PLCC SMD LED 15/ Right Angel SMD LED

17 / Multi-Color SMD LED 22 / Subminiature SMD LED

23 / Reverse Mount SMD LED

Kingbright

LOW CURRENT SMD LED

Part Number	Material	λD (nm)	Lens Type	@2	ncd) 2mA	Viewing Angle	Dimensions
				Min.	Тур.	201/2	1.0mm x 0.5mm x 0.5mm (0402)
APHHS1005LSECK/J3-PF	AlGaInP	625	Water Clear	15	35	120°	
APHHS1005LSECK/J4-PF	AlGaInP	605	Water Clear	20	40	120°	$\begin{array}{c} 0.5\\(0.02) \hline 1 \hline - + 1 \hline - + 2\\ \underline{LED \ Chip} \hline 0.8(0.031) \hline - \\ 0.5 \hline 1 \hline - + 1 \hline - + 1 \hline 2 \end{array}$
APHHS1005LCGCK	AlGaInP	570	Water Clear	1.2	3.5	120°	(0.02) 1 (0.02) 1 (0.02) 1 (0.02) 1 (0.02) 1 (0.02) 1 (0.02) 1 (0.006) 1 (
APHHS1005LQBC/D-V	InGaN	465	Water Clear	6	15	140°	APHHS1005LSECK/J3-PF APHHS1005LSECK/J4-PF 1 2 1 0 0 2 Units: mm (inch) Tolerance: ± 0.1 (0.004)
APT1608LSECK/J3-PRV	AlGaInP	625	Water Clear	20	40	120°	1.6mm x 0.8mm x 0.75mm (0603)
APT1608LSECK/J4-PRV	AlGaInP	605	Water Clear	30	50	120°	
APT1608LSYCK/J3-PRV	AlGaInP	590	Water Clear	15	25	120°	APT1608LSECK/J3-PRV 1.2(0.047) 1.1(0.043) APT1608LSECK/J4-PRV APT1608LSYCK/J3-PRV
APT1608LZGCK	InGaN	525	Water Clear	50	100	130°	$(0.029) \qquad (0.029) \qquad (0.012) \qquad (0.012) \qquad (0.012) \qquad (0.031) \qquad (0.0$
APT1608LVBC/D	InGaN	470	Water Clear	15	24	130°	Polarity mark 1 0
APTD1608LSURCK	AlGaInP	630	Water Clear	15	30	60°	1.6mm x 0.8mm x 0.95mm (0603 Dome Lens)
APTD1608LSECK/J3-PF	AlGaInP	625	Water Clear	50	120	60°	1.6(0.063)
APTD1608LSECK/J4-PF	AlGaInP	605	Water Clear	80	150	60°	
APTD1608LSYCK	AlGaInP	590	Water Clear	20	40	60°	(0.031) (0.031
APTD1608LSYCK/J3-PF	AlGaInP	590	Water Clear	30	55	60°	
APTD1608LCGCK	AlGaInP	570	Water Clear	6	8	60°	(0.037) 0.55 0.022) 0.25(0.01) 0.25(0.01) APTD1608LSECK/J3-PF
APTD1608LZGCK	InGaN	525	Water Clear	250	420	60°	0.3(0.012) 0.3(0.012)
APTD1608LVBC/D	InGaN	470	Water Clear	30	65	40°	
APTD1608LQBC/D	InGaN	465	Water Clear	10	20	40°	0.1(0.004)±0.1 Polarity mark + 0.1(0.004)±0.1 Units: mm (inch) Tolerance: ± 0.15 (0.006)
APT2012LSECK/J3-PRV	AlGaInP	625	Water Clear	20	40	140°	2.0mm x 1.25mm x 0.75mm (0805) Polarity mark 0.13(0.005) 1.25 (0.049) 1
APT2012LZGCK	InGaN	525	Water Clear	50	100	140°	APT2012L 2(0.079) 1.3(0.051) 1.2(0.047) 0.25 (0.01) 0.25 (0.01) 0.75 0.03) 1.25 0.049)
APT2012LVBC/D	InGaN	470	Water Clear	15	24	140°	$\begin{array}{c} 0.4(0.016) \\ 1 \\ \hline \end{array} \\ \hline $ \\ \hline \\ \hline \\ \hline \\ \hline \end{array} \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \hline \end{array} \\ \hline \\ \hline \\ \hline \\ \hline \end{array} \\ \hline \end{array} \\ \hline \\ \hline \\ \hline \end{array} \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \\ \\ \\ \\ \\ \\

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LOW CURRENT SMD LED

Part Number	Material	λD (nm)	Lens Type		mcd) 2mA Typ.	Viewing Angle 201/2	Dimensions
APTD2012LSURCK	AlGaInP	630	Water Clear	20	50	40°	2.0mm x 1.25mm x 1.05mm (0805 Dome Lens)
APTD2012LSYCK	AlGaInP	590	Water Clear	30	90	40°	1.25 1 (0.049) 1 R0.4(0.016) R0.4(0.016)
APTD2012LCGCK	AlGaInP	570	Water Clear	20	40	40°	0.65(0.026) + 0.4(0.016) + 1005 + 0.4(0.016) + 1000 + 2 + 0.4(0.016) + 1000 + 2 + 0.4(0.016) + 1000 + 2 + 0.4(0.016) + 0
APTD2012LZGCK	InGaN	525	Water Clear	320	550	30°	1.05 (0.041) 1 Polarity mark Units: mm (inch) Tolerance: ± 0.15 (0.006)
APA2107LZGCK	InGaN	525	Water Clear	50	100	170°	2.1mm x 1.0mm x 0.6mm (Right Angle) 2.1(0.083) 0.15(0.006) 0.15(0.006) 0.15(0.006) 0.15(0.0024) 2.1(0.067) 0.15(0.007) 0.15(0.007) 0.15(0.007)
APA2107LVBC/D	InGaN	470	Water Clear	10	20	170°	R0.6(0.024) 0.5(0.02) 0.5(0.02) 0.3(0.012) 0.3(0.012) 1 0 0 2 0.3(0.012) 1 0 0 2 Units: mm (inch) Tolerance: ± 0.1 (0.004)
APDA3020LSECK/J3-PF	AlGaInP	625	Water Clear	250	500	10°	3.0mm x 2.8mm x 2.0mm (Right Angle) Polarity mark 2.2(0.087) 2(0.079) 1 2 2(0.087) 2(0.079) 1 2 2(0.083) APDA3020L
APDA3020LZGCK	InGaN	525	Water Clear	700	1500	10°	2.8(0.11) 1.6(0.063) 0.8(0.031) 0.8(0.031) 1 0 2 Polarity mark
							3.2mm x 1.6mm x 0.75mm (1206) 1.6(0.063) 1
APT3216LSECK/J3-PRV	AlGaInP	625	Water Clear	20	40	140°	0.75(0.03) 0.75(0.03) 0.75(0.03) 0.75(0.02) 0.55(0
							Units: mm (inch)

SMD LED

LOW CURRENT SMD LED

Part Number	Material	λD (nm)	Lens Type		ncd) 2mA Typ.	Viewing Angle 201/2	Dimensions
APTD3216LSURCK	AlGaInP	630	Water Clear	20	50	40°	3.2mm x 1.6mm x 1.8mm (1206 Dome Lens) Polarity mark 0.6(0.024) 1.6(0.063) 0.22(0.126) 2 APTD3216L 0.75(0.03) 0.25(0.01) 1 0.75(0.03) 0.25(0.01) 1 0.75(0.02) 10 0.25(0.01) 1 0.25(0.01) 1 0.2
AA3528LSECKT/J3	AlGaInP	625	Water Clear	30	50	120°	3.5mm x 2.8mm x 1.9mm 3.5mm x 2.8mm x 1.9mm 2.8(0.11)±0.2 1 2.8(0.11)±0.2 1 0.2(0.008)±0.1 0.2(0.008)±0.1 0.2(0.008)±0.1 0.2(0.008)±0.1 0.8(0.031)±0.3 0.1(0.004) Nom. Units: mm (inch) Tolerance: ± 0.25 (0.01)
	InGaN	525		50	80		1.6mm x 0.8mm x 0.5mm (0603 Bi-Color) 0.6(0.02) 0.5(0
APHB1608LZGKSURKC	AlGaInP	630	- Water Clear	2	8	130°	$\begin{array}{c} 0.15(0.006) \\ \pm 0.08 \\ \hline \\ 0.2(0.008) \\ \pm 0.1 \\ \hline \\ 0.2(0.008) \\ \hline $
	AlGaInP	630		6	15		2.0mm x 1.25mm x 0.45mm (0805 Super Thin, Bi-Color) 2(0.079) 1.25 (0.049) 2(0.079) 1 LED Chip 4 Polarity mark 1.3(0.051) 1.2(0.047)
APHBM2012LSURKZGKC	InGaN	525	- Water Clear	50	90	120°	$\begin{array}{c} 0.15 \\ (0.006) \\ 0.5(0.02) \\ 0.5(0.02) \\ 0.5(0.02) \\ 0.5(0.02) \\ 0.5(0.02) \\ 0.5(0.02) \\ 0.5(0.02) \\ 0.5(0.02) \\ 0.45 \\ 0.018) \\ 0.45 \\ 0.018 \\ 0.45 \\ 0.018 \\ 0.45 \\ 0.018 \\ 0.45 \\ 0.018 \\ 0.45 \\ 0.018 \\ 0.45 \\ 0.118 \\ 0.11$

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LOW CURRENT SMD LED

Part Number	Material	λD (nm)	Lens Type	lv (r @2 Min.	ncd) mA Typ.	Viewing Angle 201/2	Dimensions	
APBD3224LSURKCGKC	AlGaInP	630	Water Clear	10	30	20°	3.2mm x 2.4mm x 2.4mm (Dome Lens) Polarity mark	
AF BD3224L3UKKCGKC	AlGaInP	570	Water Clear	10	30	20	0.6(0.024) 4 4 4 4 4 4 4 4 4 4 4 4 4	- AND
	AlGaInP	630	Weter Ole er	10	30	00°	ψε(0.07) 2.1(0.083) 1.9(0.075) 1.8(0.071)	APBD3224L
APBD3224LSURKZGKC	InGaN	525	Water Clear	120	250	20°	2.4(0.094)	Red 2 oK
	InGaN	465		12	30	000	$0.8(0.031) \xrightarrow{4} \boxed{37} 1.4$	Blue 2 oK1o 1 Green 4 oK1o 3
APBD3224LQBDCGKC	AlGaInP	570	- Water Clear	10	30	20°	$2 \sum_{0.\overline{6}(0.024)} 1 (0.055)$	Units: mm (inch) Tolerance: ± 0.1 (0.004)
							1.6mm x 0.8mm x 0.5mm (Full Color)	
	AlGaInP	621		4	15		$\begin{array}{c c} 1.5 \\ \hline 0.063) \\ \hline 0.8 \\ \hline 0.031) \\ \hline \\ $	
APHF1608LSEEQBDZGKC	InGaN	465	Water Clear	4	10	140°	2 3 <u>1</u> <u>0.5</u> (0.02) <u>1</u> <u>1</u> <u>0.18</u> <u>1</u> <u>0.18</u>	APHF1608L
			-				$\begin{array}{c c} (0.02) & & & \\ \hline & & & \\ \hline & & & \\ \hline & & & \\ (0.016) & & (0.016) \end{array}$	Blue 1 Green 4
	InGaN	525		50	90			И
							1 4	Units: mm (inch) Tolerance: ± 0.15 (0.006)
	AlGaInP	621	_	6	15		1.6mm x 1.6mm x 0.7mm (Full Color) 1.6(0.063) 0.55(0.022) 1.6(0.063) 0.063(0.022) 1.6(0.063) 0.063(0.022) 1.6(0.063) 0.55(0.022) 1.6(0.063) 0.55(0.022) 1.6(0.063) 0.55(0.022) 1.6(0.063) 0.55(0.022) 1.6(0.063) 0.55(0.022) 1.6(0.063) 0.55(0.022) 1.6(0.063) 0.55(0.022) 1.6(0.063) 0.55(0.022) 1.6(0.063) 0.55(0.022) 1.6(0.063) 0.55(0.022) 1.6(0.063) 0.55(0.022) 1.6(0.063) 0.55(0.022) 1.6(0.063) 0.55(0.022) 1.6(0.063) 0.55(0.022) 1.6(0.063) 0.55(0.022) 1.6(0.063) 0.05(0.022) 1.6(0.063) 0.05(0.022) 1.6(0.063) 0.05(0.022) 1.6(0.063) 0.05(0.022) 1.6(0.063) 0.05(0.022) 1.6(0.063) 0.05(0.022) 1.6(0.063) 0.05(0.022) 1.6(0.063) 0.05(0.022) 1.6(0.063) 0.05(0.022) 1.6(0.063) 0.05(0.022) 1.6(0.063) 0.05(0.022) 1.6(0.063) 0.05(0.022) 1.6(0.063) 0.05(0.022) 1.6(0.063) 0.05(0.022) 1.6(0.063) 0.03(0.033) 1.6(0.063) 0.03(0.033) 1.6(0.063)	
APTF1616LSEEZGKQBKC	InGaN	525	Water Clear	30	80	130°	$\frac{1}{2} \frac{2}{1.2(0.047)}$	APTF1616L
							0.25(0.010) 0.35(0.014) 0.35(0.014) 0.7(0.028)	4 0 K Sieen Green 3 0 K 0 1
	InGaN	465		6	14			Red 2 ∞——K1——
							Polarity mark	Units: mm (inch) Tolerance: ± 0.2 (0.008)
	InGaN	465		4	10		2.5mm x 1.0mm x 0.7mm (Right Angle, Full Color)	
APFA2507LQBDSEEZGKC	AlGaInP	621	Water Clear	6	10	130°	$1(0.039) \underbrace{\frac{1}{0.5(0.02)}}_{\underline{Polarity mark}} \underbrace{\frac{1}{0.5(0.02)}}_{\underline{1}}$	APFA2507L
	InGaN	525		50	90		$0.35(0.014) \\ $	Units: mm (inch) Tolerance: ± 0.15 (0.006)

06 www.KingbrightUSA.com

SMD LED

LOW CURRENT SMD LED

Part Number	Material	λD (nm)	Lens Type		ncd) A*5mA Typ.	Viewing Angle 201/2	Dimensions
	AlGaInP	621		6	15		3.0mm x 1.5mm x 1.0mm (Right Angle, Full Color)
APFA3010LSEEZGKQBKC	InGaN	525	Water Clear	50	90	150°	3(0.118) APFA3010L 2(0.079) 1.5(0.059) 0.5(0.02) Blue 20 4
	InGaN	465		4	10		0.4(0.016) 2 3 0.4(0.016) 3 0.4(0.016) Units: mm (inch) Tolerance: ± 0.2 (0.008)
	AlGaInP	621		10	20		3.5mm x 2.8mm x 1.9mm (Full Color) 3.5(0.138)±0.2
AAA3528LSEEZGKQBKS	InGaN	525	Water Clear	80	180	120°	3 4 0.75(0.03) AAA3528L 2.8(0.11)±0.2 0.7(0.028) 0.7(0.028) 2 1 0.7(0.028) 2 0.7(0.028) 0.7(0.028) 2 0.7(0.028) 0.7(0.028)
	InGaN	465	•	12	30		0.15(0.006) + 0.0004) + 0.0004) + 0.0004) + 0.0004 + 0.
APG0603ZGC-5MAV	InGaN	525	Water Clear	*180	*280	140°	0.65mm x 0.35mm x 0.2mm (0201) 0.65(0.026) ^{+0.08} 0.35(0.014) ^{+0.08} 1 [] 2 APG0603-5MAV
APG0603VBC-A1-5MAV	InGaN	468	Water Clear	*30	*60	140°	$0.2(0.008)^{+0.05}_{-0.02}$ 0.2(0.008) 0.25(0.01) 1 0.25(0.022) 2 0.35 0.100000000000000000000000000000000000
APG1005ZGC-5MAV	InGaN	525	Water Clear	*120	*280	140°	1.0mm x 0.5mm x 0.2mm (0402) 1(0.039) 0.5(0.02) 0.5(0.024) 0.6(0.024)
APG1005VBC-A1-5MAV	InGaN	468	Water Clear	*20	*60	140°	$0.2(0.008) \stackrel{+0.05}{-0.02} \stackrel{-1}{-0.02} \stackrel{-1}{-0.08} \stackrel{-1}{-0.08} \stackrel{-0.08(0.003)}{-1.005} \\ 10 \stackrel{-1}{-0.05} \stackrel{-1}{-0.05} \stackrel{-1}{-0.05} \\ 10 \stackrel{-1}{-0.05} \stackrel{-1}{-0.05} \stackrel{-1}{-0.05} \stackrel{-1}{-0.05} \\ 10 \stackrel{-1}{-0.05} \stackrel{-1}{-0.05} \stackrel{-1}{-0.05} \stackrel{-1}{-0.05} \stackrel{-1}{-0.05} \\ 10 \stackrel{-1}{-0.05} \stackrel{-1}{-0.05} \stackrel{-1}{-0.05} \stackrel{-1}{-0.05} \stackrel{-1}{-0.05} \\ 10 \stackrel{-1}{-0.05} \stackrel{-1}$

LOW CURRENT SMD LED

Part Number	Material	λD	Lens Type	lv (r @5	ncd) imA	Viewing Angle	Dimensions
		(nm)		Min.	Тур.	201/2	
APGF0606SEEKSYKXC-TT	AlGaInP	624	Water Clear	30	80	140°	0.65mm x 0.65mm x 0.2mm (Bi-Color) 0.65(0.026) Yellow
AFGF00003EEKSTKAG-TT	AlGaInP	589	Water Clear	10	17	140	
APGF0606SEEKCGKXC-TT	AlGaInP	624	Water Clear	30	80	140°	
AFGF00003EERCGRAC-TT	AlGaInP	571	Water Clear	4	8	140	
APGF0606SEEKCGKCTTC2	AlGaInP	624	Water Clear	30	80	140°	
AFGF00003EERCGRC1102	AlGaInP	571	Water Clear	4	8	140	0.2(0.008) 0.2(0.006)
APGF0606SYKCGK-TT-C2	AlGaInP	589	Water Clear	10	17	140°	$APGF06065YKCGK-TT-C2$ $0.2(0.008) \qquad \qquad$
AFGF00003TKCGK-11-02	AlGaInP	571	Water Clear	4	8	140	1 → 4 Green Green Green Green Green Green Units: mm (inch) Tolerance: ± 0.1 (0.004)
	InGaN	525		80	220		1.0mm x 1.0mm x 0.25mm (Full Color)
APGF1012GBRC-07	InGaN	465	Water Clear	10	23	150°	$\begin{array}{c c} & & & \\ & & & \\ & & & \\ \hline \\ & & & \\ & & \\ \hline \\ & & \\$
	AlGaInP	624		15	30		2 0.25(0.010) 0.85 (0.033) 1 0 0 0 4 0.25 (0.010) 4 Units: mm (inch) Tolerance: ± 0.1 (0.004)

LOW CURRENT SMD LED

Part Number	Material	Chromaticity	Lens Type		mcd) 5mA	Viewing Angle	Dimensions
		Coordinates		Min.	Max.	201/2	
APHM1608VRBXF/A-5MAV	InGaN	x=0.20 y=0.15	Yellow Fluorescent	80	180	160°	1.6mm x 0.8mm x 0.45mm (0603) 0.8(0.031) 1.6(0.063) 0.15(0.006) 0.15(0.006) 0.15(0.006) 0.15(0.006) 0.15(0.006) 0.15(0.012) 0.3(0

08 www.KingbrightUSA.com

LOW CURRENT SMD LED

Part Number	Material	Chromaticity	Lens Type	lv (r @5	mcd) 5mA	Viewing Angle	Dimensions
		Coordinates		Min.	Max.	201/2	
							1.6mm x 0.8mm x 0.75mm (0603)
APT1608VRCXF/A-5MAV	InGaN	x=0.23 y=0.41	Green Fluorescent	80	350	160°	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
							0.3(0.012) 1 Polarity mark
							Units: mm (inch) Tolerance: ± 0.1 (0.004)

HIGH TEMPERATURE SMD LED

Part Number	Material	λD	Lens Type		ncd) A*2mA	Viewing Angle	Dimensions	
	Material	(nm)	сена туре	Min.	Max.	201/2		
APT1608SEC/J3-AMT	AlGaInP	625	Water Clear	200	500	120°	1.6mm x 0.8mm x 0.75mm (0603)	
APT1608SECK-AMT	AlGaInP	605	Water Clear	80	300	120°	1.6(0.063) 1.2(0.047) 1.1(0.043)	APT1608
APT1608SYC/J3-AMT	AlGaInP	590	Water Clear	300	1000	120°	$0.75(0.029) \qquad 0.25(0.01) \qquad 0.25(0.01)$	1 0K]0 2 APT1608SEC/J3-AMT APT1608SYC/J3-AMT
APT1608ZGC-AMT	InGaN	525	Water Clear	300	700	130°	0.3(0.012) 0.3(0.	1 o
APHB1608Y2R2C-AMT	AlGaInP	590	Water Clear	80	300	130°	1.6mm x 0.8mm x 0.5mm (0603 Bi-Color)	
	AlGaInP	630	water Clear	40	120	130	$\begin{pmatrix} 0.8\\ (0.031) \\ 2 \\ LED Chip \end{pmatrix}$	APHB1608
APHB1608G2R2C-AMT	AlGaInP	570	Water Clear	20	80	130°		Red
74 HD 100002120-7441	AlGaInP	630	Water Olear	40	120	100		$\begin{array}{c} \text{Red} \\ 4 & \bigcirc & & \\ & & & \\ Yellow \\ 2 & \bigcirc & & \\ & & & \\ Red \\ \end{array} $
	InGaN	525	Wotor Close	*50	*180	120°	0.4(0.016) 0.8(0.031) 0.4(0.016) 0.3(0.012) 0.2(0.008) - 2 0.3(0.012) 0.3(0	Red 4 0
APHB1608LG3R2C-AMT	AlGaInP	630	Water Clear	*4	*15	130°	± 0.1 4 Polarity mark	Units: mm (inch) Tolerance: ± 0.15 (0.006)

HIGH TEMPERATURE SMD LED

Part Number	Material	λD (nm)	Lens Type		mcd) mA**10mA Max.	Viewing Angle 2θ1/2	Dimensions	
	AlGalnP	630	With Oliver	55	200	4508	3.0mm x 1.5mm x 1.0mm (Right Angle, Full Color)	PFA3010
APFA3010R2G2C-C6-AMT	AlGaInP	570	Water Clear	20	80	150°	0.5(0.02) + 1.5(0.059) = 0.4(0.016) = 0.4(mm (inch)).2 (0.008)
AA4040SURCKT-AMT	AlGaInP	630	Water Clear	80	300	120°	4.0mm x 4.0mm x 3.6mm (Right Angle)	
AA4040LSURCKT-AMT	AlGaInP	630	Water Clear	*6	*20	120°	1.4(0.055) Polarity mark 1 0.3(0.012)	5
	AlGaInP	625		**250	**450	1000	2.9(0.114) R1 3.6(0.142)	AA4040
AA4040R3G2CT/R-10MAT	AlGaInP	570	Water Clear	**15	**80	120°		
AA4040SYCKT/J3-AMT	AlGaInP	590	Water Clear	400	1000	120°	4(0.157) 1° 2 Green	_
AA4040LSYCKT/J3-AMT	AlGaInP	590	Water Clear	*20	*80	120°	- AA4040R3G2CT/R-10MAT	Ι
AA4040LCGCK-AMT	AlGaInP	570	Water Clear	*6	*20	120°		
AA4040ZGCKT-AMT	InGaN	525	Water Clear	500	1300	120°		
AA4040LZGCKT-AMT	InGaN	525	Water Clear	*80	*320	120°		, 28)
AA4040QBS/D-AMT	InGaN	465	Water Clear	120	400	120°	1(0.039) 2.85(0.112) 2.85(0.112) 5pacing	
AA4040LQBS/D-AMT	InGaN	465	Water Clear	*15	*50	120°		mm (inch)).25 (0.01)

TOP-EMITTING CHIP SMD LED

Part Number	Material	λD	Lens Type		ncd) 0mA	Viewing Angle	Dimensions	
		(nm)	51	Min.	Тур.	201/2		
APG0603SURC-TT	AlGaInP	631	Water Clear	10	35	140°	0.65mm x 0.35mm x 0.2mm (0201)	
APG0603SEC-E-TT	AlGaInP	624	Water Clear	15	40	140°		APG0603
APG0603SEC-TT	AlGaInP	605	Water Clear	20	50	140°		
APG0603SYC-TT	AlGaInP	589	Water Clear	10	30	140°		2
APG0603CGC-TT	AlGaInP	571	Water Clear	6	15	140°		Units: mm (inch) ce: ± 0.1 (0.004)

10 www.KingbrightUSA.com

TOP-EMITTING CHIP SMD LED

Part Number	Material	λD (nm)	Lens Type		ncd) 0mA Typ.	Viewing Angle 201/2	Dimensions
APG1005SYC-T	AlGaInP	589	Water Clear	55	100	120°	1.0mm x 0.5mm x 0.2mm (0402) 1(0.039) 0.5(0.02) 0.5(0.024) 0.6(0.024)
APG1005CGC-T	AlGaInP	571	Water Clear	12	35	120°	$0.2(0.008)^{+0.05}_{-0.02}$
APHHS1005SURCK	AlGaInP	630	Water Clear	40	70	120°	1.0mm x 0.5mm x 0.5mm (0402)
APHHS1005SECK	AlGaInP	605	Water Clear	80	150	120°	
APHHS1005SYCK	AlGaInP	590	Water Clear	80	150	120°	LED Chip 0.8(0.031)
APHHS1005CGCK	AlGaInP	570	Water Clear	20	50	120°	$\begin{array}{c c} 0.5\\ (0.02)\\ \hline 0.15\\ (0.006)\\ \hline \end{array} \end{array} \xrightarrow{\begin{array}{c} 0.5\\ (0.02)\\ \hline \end{array}} \begin{array}{c} 0.5\\ (0.02)\\ \hline \end{array} \xrightarrow{\begin{array}{c} 0.5\\ (0.02)\\ \hline \end{array}} \begin{array}{c} 0.5\\ \hline \end{array} \xrightarrow{\begin{array}{c} 0.5\\ (0.02)\\ \hline \end{array} \xrightarrow{\begin{array}{c} 0.5\\ \hline \end{array}} \xrightarrow{\begin{array}{c} 0.5\\ \hline \end{array} \xrightarrow{\begin{array}{c} 0.5\\ \hline \end{array} \xrightarrow{\begin{array}{c} 0.5\\ \hline \end{array}} \xrightarrow{\begin{array}{c} 0.5\\ \hline \end{array} \xrightarrow{\begin{array}{c} 0.5\\ \hline \end{array} \xrightarrow{\begin{array}{c} 0.5\\ \hline \end{array}} \xrightarrow{\begin{array}{c} 0.5\\ \hline \end{array} \xrightarrow{\begin{array}{c} 0.5\\ \hline \end{array} \xrightarrow{\begin{array}{c} 0.5\\ \hline \end{array}} \xrightarrow{\begin{array}{c} 0.5\\ \hline \end{array} \xrightarrow{\begin{array}{c} 0.5\\ \hline \end{array} \xrightarrow{\begin{array}{c} 0.5\\ \hline \end{array}} \xrightarrow{\begin{array}{c} 0.5\\ \hline \end{array} \end{array}$
APHHS1005ZGCK	InGaN	525	Water Clear	400	550	140°	APHHS1005ZGCK 0.4(0.016) 0.4(0.016) APHHS1005QBC/D
APHHS1005QBC/D	InGaN	465	Water Clear	40	60	140°	1 2 1 2 Units: mm (inch) Tolerance: ± 0.1 (0.004)
APG1608SURKC/T	AlGaInP	630	Water Clear	55	110	120°	1.6mm x 0.8mm x 0.25mm (0603)
APG1608SEKC/T	AlGaInP	601	Water Clear	55	100	120°	
APG1608SYKC/T	AlGaInP	590	Water Clear	55	120	120°	0.8(0.031) 1 2 APG1608
APG1608CGKC/T	AlGaInP	570	Water Clear	20	50	120°	$\begin{array}{c} 0.25(0.01) \\ \pm 0.03 \\ \hline \end{array} \qquad \qquad$
APG1608ZGCK	InGaN	525	Water Clear	300	400	130°	
APG1608QBC/D	InGaN	465	Water Clear	40	100	130°	Polarity mark Units: mm (inch) Tolerance: ± 0.1 (0.004)
APT1608SURCK	AlGaInP	630	Water Clear	40	80	120°	1.6mm x 0.8mm x 0.75mm (0603)
APT1608SECK/J3-PRV	AlGaInP	625	Water Clear	200	350	120°	
APT1608SECK/J4-PRV	AlGaInP	605	Water Clear	300	550	120°	
APT1608SECK	AlGaInP	605	Water Clear	80	180	120°	1.6(0.063) 1.2(0.047)
APT1608SYCK	AlGaInP	590	Water Clear	80	150	120°	1.1(0.043) APT1608SECK/J3-PRV APT1608SECK/J4-PRV
APT1608SYCK/J3-PRV	AlGaInP	590	Water Clear	200	320	120°	0.75 (0.029) 0.25 1 APT1608SYCK/J3-PRV
APT1608CGCK	AlGaInP	570	Water Clear	20	50	120°	$\begin{array}{c} (0.029) \\ \hline \\ 0.3(0.012) \\ 0.3(0.012) \\ \end{array} \xrightarrow{-0.25} \begin{array}{c} -0.25 \\ 0.001 \\ 0.001 \\ 0.001 $
APT1608ZGCK	InGaN	525	Water Clear	300	550	130°	
APT1608VBC/D	InGaN	470	Water Clear	120	180	130°	
APT1608QBC/D	InGaN	465	Water Clear	40	100	130°	Polarity mark Units: mm (inch) Tolerance: ± 0.1 (0.004)

TOP-EMITTING CHIP SMD LED

Part Number	Material	λD (nm)	Lens Type	lv (r @20 Min.	ncd))mA Typ.	Viewing Angle 201/2	Dimensions
APTD1608SURCK	AlGaInP	630	Water Clear	80	250	60°	1.6mm x 0.8mm x 0.95mm (0603 Dome Lens)
APTD1608SEC/J3	AlGaInP	625	Water Clear	500	900	60°	1.6(0.063)
APTD1608SECK/J3-PF	AlGaInP	625	Water Clear	500	900	60°	
APTD1608SECK/J4-PF	AlGaInP	605	Water Clear	1000	1600	60°	
APTD1608SECK	AlGaInP	605	Water Clear	200	500	60°	R0.35(0.014)
APTD1608SYCK	AlGaInP	590	Water Clear	300	600	60°	
APTD1608SYCK/J3-PF	AlGaInP	590	Water Clear	500	850	60°	0.22(0.01)
APTD1608CGCK	AlGaInP	570	Water Clear	80	190	60°	0.3(0.012) 0.3(0.012) APTD16085ECK/J3-PF 0.1012 APTD16085ECK/J3-PF 0.1012 APTD16085VCK/J3-PF
APTD1608ZGCK	InGaN	525	Water Clear	700	1200	60°	
APTD1608VBC/D	InGaN	470	Water Clear	200	350	40°	(0.024) 0.1(0.004)±0.1 Polarity mark 0.1(0.004)±0.1
APTD1608QBC/D	InGaN	465	Water Clear	80	200	40°	2.0mm x 1.25mm x 0.4mm (0805)
APHCM2012SURCK-F01	AlGaInP	630	Water Clear	40	80	140°	Polarity mark 0.13(0.005)
APHCM2012SECK-F01	AlGaInP	605	Water Clear	80	180	140°	1.25(0.049) 1 2(0.079) 2 2(0.079) APHCM2012
APHCM2012SYCK-F01	AlGaInP	<mark>590</mark>	Water Clear	80	150	140°	0.15(0.006) 0.15(0.006) 0.4(0.016) 10-10-2
APHCM2012CGCK-F01	AlGaInP	570	Water Clear	20	50	140°	
APHCM2012QBC/D-F01	InGaN	465	Water Clear	40	100	140°	Polarity mark 2 1.1 (0.043) Units: mm (inch) Tolerance: ± 0.1 (0.004)
APT2012SURCK	AlGaInP	630	Water Clear	40	80	140°	2.0mm x 1.25mm x 0.75mm (0805)
APT2012SECK/J3-PRV	AlGaInP	625	Water Clear	200	350	140°	Polarity mark 0.13(0.005)
APT2012SECK	AlGaInP	605	Water Clear	80	180	140°	
APT2012SYCK	AlGaInP	590	Water Clear	80	150	140°	- + APT2012
APT2012SYCK/J3-PRV	AlGaInP	590	Water Clear	200	320	140°	1.3(0.051) APT20125E(K/J3-PRV APT20125Y(K/J3-PRV 1.2(0.047) Patiente 0.13(0.001)
APT2012CGCK	AlGaInP	570	Water Clear	20	50	140°	$0.25 \qquad \qquad$
APT2012ZGCK	InGaN	525	Water Clear	300	550	140°	$\begin{array}{c} (0.01) \overline{1} \\ \hline \\ (0.049) \\ \hline \\ (0.049) \\ 1 \\ 1 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ -$
APT2012VBC/D	InGaN	470	Water Clear	120	180	140°	
APT2012QBC/D	InGaN	465	Water Clear	40	100	140°	Units: mm (inch) Tolerance: ± 0.1 (0.004)
APL3015SURCK-F01	AlGaInP	630	Water Clear	120	180	70°	3.0mm x 1.5mm x 1.4mm 0.18(0.007)Min. LED Chip
APL3015SECK-F01	AlGaInP	605	Water Clear	120	350	70°	Polarity mark 0.18(0.007)Min.
APL3015SYCK-F01	AlGaInP	<mark>590</mark>	Water Clear	200	350	70°	APL3015
APL3015CGCK-F01	AlGalnP	570	Water Clear	55	120	70°	
APL3015ZGC-F01	InGaN	525	Water Clear	1000	1500	50°	
APL3015QBC/D-F01	InGaN	465	Water Clear	120	200	50°	1 2 1.5(0.059) Units: mm (inch) Tolerance: ± 0.2 (0.008)

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TOP-EMITTING CHIP SMD LED

Part Number	Material	λD (nm)	Lens Type	@2		Viewing Angle 201/2	Dimensions
APT3216SURCK	AlGaInP	630	Water Clear	Min. 40	Тур. 80	140°	3.2mm x 1.6mm x 0.75mm (1206) Polarity mark
APT3216SECK/J3-PRV	AlGaInP	625	Water Clear	200	350	140°	
APT3216SECK	AlGaInP	605	Water Clear	80	180	140°	APT3216
APT3216SYCK	AlGaInP	590	Water Clear	80	150	140°	2(0.079) 1.9(0.075) 1.9(0.075)
APT3216CGCK	AlGaInP	570	Water Clear	20	50	140°	
APT3216ZGC	InGaN	525	Water Clear	300	600	150°	<u>0.5(0.02)</u> 1 0 1 0 2
APT3216QBC/D	InGaN	465	Water Clear	40	100	150°	1 Units: mm (inch) Tolerance: ± 0.2 (0.008)
APTL3216SURCK	AlGaInP	630	Water Clear	120	230	80°	3.2mm x 1.6mm x 1.1mm (1206)
APTL3216SECK	AlGaInP	605	Water Clear	200	350	80°	
APTL3216SYCK	AlGaInP	590	Water Clear	200	350	80°	Polarity mark \$\$ 0.5(R0.02)
APTL3216CGCK	AlGaInP	570	Water Clear	55	100	80°	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
APTL3216ZGC	InGaN	525	Water Clear	700	1100	80°	Polarity mark
APTL3216QBC/D	InGaN	465	Water Clear	120	250	80°	1 Units: mm (inch) Tolerance: ± 0.1 (0.004)
APTD3216SURCK	AlGaInP	630	Water Clear	300	800	40°	3.2mm x 1.6mm x 1.8mm (1206 Dome Lens) Polarity mark 0.6(0.024)
APTD3216SECK	AlGaInP	605	Water Clear	500	1000	40°	
APTD3216SYCK	AlGaInP	<mark>5</mark> 90	Water Clear	700	800	40°	APTD3216
APTD3216CGCK	AlGaInP	570	Water Clear	120	300	40°	0.75(0.03)
APTD3216ZGCK	InGaN	525	Water Clear	2700	4000	30°	
APTD3216QBC/D	InGaN	465	Water Clear	300	700	30°	Polarity mark 2 Units: mm (inch) Tolerance: ± 0.2 (0.008)
APD3224SURCK-F01	AlGaInP	630	Water Clear	1000	1300	20°	3.2mm x 2.4mm x 2.4mm (Dome Lens) Polarity mark 1.7(0.067)
APD3224SECK-F01	AlGaInP	605	Water Clear	1000	1600	20°	
APD3224SYCK-F01	AlGaInP	<mark></mark> 590	Water Clear	1300	1600	20°	2.2(0.087) 1.8(0.071) APD3224 2.1(0.083) 1.8(0.071) P.C. Board
APD3224CGCK-F01	AlGaInP	570	Water Clear	500	900	20°	
APD3224ZGCK-F01	InGaN	525	Water Clear	3600	6800	20°	$10.039) \qquad 10 \qquad 1$
APD3224QBC/D-F01	InGaN	465	Water Clear	500	900	20°	Units: mm (inch) 2.1(0.083) 0.55(0.022) Units: mm (inch) Tolerance: ± 0.1 (0.004)

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TOP-EMITTING PLCC SMD LED

TOP-EIMITTING PLCC							
Part Number	Material	λD (nm)	Lens Type		ncd) *10mA Typ.	Viewing Angle 2θ1/2	Dimensions
AA1608SURSK	AlGaInP	630	Water Clear	40	160	120°	1.6mm x 0.8mm x 0.55mm (0603)
AA1608SESK	AlGaInP	605	Water Clear	80	120	120°	1.6(0.063) 1.4(0.055)
AA1608SYSK	AlGaInP	590	Water Clear	55	240	120°	
AA1608CGSK	AlGaInP	570	Water Clear	40	80	120°	
AA1608ZGSK-10MAV	InGaN	525	Water Clear	*450	*700	120°	
AA1608VBS/A1-10MAV	InGaN	468	Water Clear	*50	*160	120°	0.44 (0.017)
AA1608QBS/D-10MAV	InGaN	465	Water Clear	*50	*120	120°	0.86(0.034) 0.5(0.02) Units: mm (inch) Tolerance: ± 0.15 (0.006)
AA3021SURSK	AlGalnP	630	Water Clear	40	90	120°	3.0mm x 2.0mm x 1.3mm
							3(0.118) Polarity mark 2.7(0.106) 2.5(0.098)
AA3021SYSK	AlGaInP	590	Water Clear	120	200	120°	AA3021
AA3021CGSK	AlGalnP	570	Water Clear	40	80	120°	
AA3021QBS/D	InGaN	465	Water Clear	80	120	120°	1.4(0.055) + - + - + - + - + - + - + - + - + - +
		λD			ncd)	Viewing	Tolerance: ± 0.2 (0.008)
Part Number	Material	(nm)	Lens Type	Min.	A*30mA Typ.	Angle 2θ1/2	Dimensions
AA3527ASYSK/J3-50MAV	AlGaInP	590	Water Clear	1000	1500	120°	3.5mm x 2.7mm x 1.9mm Polarity mark 3.5(0.138) 2.7(0.106) 2 AA3527A
AA3527AZGSK-30MAV	InGaN	525	Water Clear	*500	*700	120°	4 4 4 4 4 4 4 4 4 4 4 4 4 4
AA3527AVBS/D-30MAV	InGaN	470	Water Clear	*300	*600	120°	1.45(0.057)

14 www.KingbrightUSA.com

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TOP-EMITTING PLCC SMD LED

Part Number	Material	λD (nm)	Lens Type		ncd) 0mA Typ.	Viewing Angle 201/2	Dimensions
AA3528SURCK	AlGaInP	630	Water Clear	55	100	120°	3.5mm x 2.8mm x 1.9mm 3.5(0.138)±0.2
AA3528SYCK	AlGaInP	590	Water Clear	120	250	120°	Polarity mark 3.2(0.126)±0.2 AA3528
AA3528CGCK	AlGaInP	570	Water Clear	40	100	120°	$2.8(0.11)\pm0.2$
AA3528ZGCK	InGaN	525	Water Clear	500	1000	120°	
AA3528VBS/D	InGaN	470	Water Clear	300	450	120°	$\begin{array}{c} 0.2(0.005)\pm 0.1 \\ 0.15(0.006) \\ \pm 0.05 \\ \pm 0.05 \end{array}$
AA3528QBS/D	InGaN	465	Water Clear	80	150	120°	0.1(0.004) 0.8(0.031)±0.3 Nom. Units: mm (inch) Tolerance: ± 0.25 (0.01)

RIGHT ANGLE SMD LED

Part Number	Material	λD	Lens Type		ncd) 0mA	Viewing Angle	Dimensions
		(nm)		Min.	Тур.	201/2	
APA1606SURCK	AlGaInP	630	Water Clear	40	80	110°	1.6mm x 1.2mm x 0.6mm (Right Angle)
APA1606SECK	AlGaInP	605	Water Clear	80	180	110°	
APA1606SYCK	AlGaInP	<mark>5</mark> 90	Water Clear	80	150	110°	1.6(0.063) 1.2(0.047) 1.1(0.043)
APA1606CGCK	AlGaInP	570	Water Clear	20	50	110°	
APA1606VBC/D	InGaN	470	Water Clear	120	200	110°	
APA1606QBC/D	InGaN	465	Water Clear	40	80	110°	$1 + \frac{1}{1 + \frac{1}{1$
APDA1806SURCK	AlGaInP	630	Water Clear	500	1200	25°	1.8mm x 1.5mm x 0.6 mm (Right Angle)
APDA1806SECK/J3-PRV	AlGaInP	625	Water Clear	1300	2600	25°	1 1 2 0.36(0.014) 1 2 0.95(0.037) 40.95(0.037) APDA1806
APDA1806SYCK	AlGaInP	590	Water Clear	500	1100	25°	
APDA1806CGCK	AlGaInP	570	Water Clear	120	400	25°	
APDA1806ZGCK	InGaN	525	Water Clear	1900	3200	25°	
APDA1806VBC/D	InGaN	470	Water Clear	400	800	25°	Polarity mark Units: mm (inch) Tolerance: ± 0.15 (0.006)

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RIGHT ANGLE SMD LED

				lv/r	ncd)	Viewing		
Part Number	Material	λD (nm)	Lens Type		0mA Typ.	Angle 201/2	Dimensions	
APA2107SURCK	AlGaInP	630	Water Clear	40	80	140°	2.1mm x 1.0mm x 0.6mm (Right Angle) 2.1(0.083) 0.15(0.006) 0.5(0.006) 0.6(0.024)	
APA2107SYCK	AlGaInP	<mark>590 590 590 500 500 500 500 500 500 500 </mark>	Water Clear	80	150	140°	1.7(0.067) R0.6(0.024) 0.5(0.02) 1.7(0.067) 1(0.039) 1 0 - K - 0 2	PA2107
APA2107CGCK	AlGaInP	570	Water Clear	20	50	140°	0.3(0.012) 0.3(0.012) 0.3(0.012) 0.3(0.012) 0.3(0.012) 0.3(0.012) 0.3(0.012) 0.3(0.012) Units: mr Tolerance: ± 0.1	m (inch) (0.004)
AA2810ASURSK	AlGaInP	630	Water Clear	40	100	110°	2.8mm x 1.2mm x 0.8mm (Right Angle)	
AA2810ASESK/J3	AlGaInP	625	Water Clear	300	500	110°	2.8(0.11) 2.5(0.098) 1.2(0.047) AA	2810A
AA2810ASYSK	AlGaInP	<mark>5</mark> 90	Water Clear	120	200	110°		
AA2810ACGSK	AlGaInP	570	Water Clear	40	70	110°		
AA2810AVBS/D	InGaN	470	Water Clear	200	350	110°	0.75(0.03) AA2810ASESK/J3 10 0 2 Units: mr Tolerance: ± 0.1	
APA3010SURCK-GX	AlGaInP	630	Water Clear	40	80	120°	3.0mm x 2.0mm x 1.0mm (Right Angle) 1(0.039) 1	
APA3010SECK-GX	AlGaInP	605	Water Clear	80	180	120°		PA3010
APA3010SYCK-GX	AlGaInP	<mark>590</mark>	Water Clear	80	150	120°		
APA3010CGCK-GX	AlGaInP	570	Water Clear	20	50	120°	0.4(0.016) 0.4(0.016)	
APA3010QBC/D-GX	InGaN	465	Water Clear	40	80	120°	Polarity mark	
APDA3020SECK/J3-PF	AlGaInP	625	Water Clear	2300	3800	10°	3.0mm x 2.8mm x 2.0mm (Right Angle, Dome Lens) <u>Polarity mark</u> 3(0.118) <u>φ1.9(0.075)</u> 2(0.079) 1 22	
APDA3020SYCK/J3-PF	AlGaInP	590	Water Clear	3600	7000	10°	APD 2.8(0.11) 1.6(0.063) 0.5(0.02))A3020
APDA3020VBC/D	InGaN	470	Water Clear	1300	2300	10°	0.8(0.031) 0.8(0.031) 1 0.8(0.031) 2 Units: mr Polarity mark 10 2	F m (inch)

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RIGHT ANGLE SMD LED

Part Number	Material	λD	Lens Type		mcd) 0mA	Viewing Angle	Dimensions
		(nm)		Min.	Тур.	201/2	
AA4040SURSK	AlGaInP	630	Water Clear	80	150	120°	4.0mm x 4.0mm x 3.6mm (Right Angle) 1.4(0.055)
AA4040SESK	AlGaInP	605	Water Clear	80	220	120°	Polarity mark
AA4040SYSK	AlGaInP	590	Water Clear	120	250	120°	
AA4040CGCK	AlGaInP	570	Water Clear	40	90	120°	
AA4040ZGS	InGaN	525	Water Clear	500	850	120°	
AA4040QBS/D	InGaN	465	Water Clear	80	220	120°	
AA4040QBS/G	InGaN	465	Water Clear	200	350	120°	Cathode I Anode 2.85(0.112) T 2.54(0.1) Spacing Units: mm (inch) Tolerance: ± 0.25 (0.01)

MULTI-COLOR SMD LED

Part Number	Material	λD	Lens Type		ncd) 0mA	Viewing Angle	Dimensions
	Matorial	(nm)	Lono Typo	Min.	Тур.	201/2	
APHB1608SYKSURKC	AlGaInP	590	Water Clear	80	150	- 130°	1.6mm x 0.8mm x 0.5mm (0603 Bi-Color)
	AlGaInP	630	Water Clear	40	90	130	
APHB1608CGKSURKC	AlGaInP	570	Water Clear	20	50	130°	1.6(0.063) 0.5(0.02)
	AlGaInP	630	Water Clear	40	90	130	
APHB1608CGKSEKC	AlGaInP	570	Water Clear	20	50	130°	0.8 (0.031)
	AlGaInP	605	Water Clear	80	200	130	
APHB1608CGKSYKC	AlGaInP	570	Water Clear	20	50	130°	LED Chip
	AlGaInP	590	water Clear	80	150	130	Red Red 40──K1──03 40──K1──03 Yellow Blue
	InGaN	525	Water Clear	200	350	- 130°	Yellow Blue 20──K───01 20──K───01
APHB1608ZGKSURKC	AlGaInP	630	Water Clear	40	90	130	0.15(0.006)
	InGaN	525	Water Clear	200	400	1200	± 0.08 1 40 6 10 10 10 10 10 10 10 10
APHB1608ZGSYKC	AlGaInP	590	Water Clear	80	150	130°	20 ~~K]01 20 ~~K]01
	InGaN	465	Watan Olaan	40	70	400%	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
APHB1608QBDSURKC	AlGaInP	630	Water Clear	40	90	130°	$\begin{array}{c} Green \\ 1 \\ 0.3 \\ 2 \\ 1 \\ 0.012 \\ 0 \\ 1 \\ 0.012 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $
APHB1608QBDSYKC	InGaN	465	Water Clear	40	70	- 130°	0.2(0.008) + 2
APHB1608QBDS1KC	AlGaInP	590	vvater Clear	80	150	130	$4 \square 1 \square 3$ $40 \square 53$ Green
	InGaN	465	Water Clear	40	70	120°	<u>/Polarity mark</u> 20
APHB1608QBDCGKC	AlGaInP	570	Water Clear	20	50	- 130°	Units: mm (inch) Tolerance: ± 0.15 (0.006)
	AlGaInP	621		40	120	_	1.6mm x 0.8mm x 0.5mm (Full Color) 1.6 0.05 0.8 0.8 0.031 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
APHF1608SEEQBDZGKC	InGaN	465	Water Clear	20	60	140°	$\begin{array}{c c} & & & & \\ \hline & & & \\ 0.5 \\ (0.02) \\ \hline \\ \hline \\ \hline \\ 0.4 \\ (0.007) \\ \hline \\ \hline \\ 0.4 \\ (0.007) \\ \hline \\ 0.18 \\ \hline \\ 0.007) \\ 1 \\ \hline \\ \hline \\ Blue \\ Blue \\ \hline \\ Blue \\ \hline \\ Blue \\ \hline \\ Green \\ \hline \\ Green \\ \hline \\ \end{array}$
	InGaN	525		200	480		(0.016) (0.016) (0.006) (0.006) (0.006) (0.006) (0.006) (0.016) (0.

AP series custom-made is available upon request

17

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MULTI-COLOR SMD LED

Part Number	Material	λD (nm)	Lens Type	lv (r @2 Min.	ncd) 0mA Typ.	Viewing Angle 201/2	Dimensions
	AlGaInP	630		40	80		1.6mm x 1.25mm x 0.65mm (Bi-Color) 1.6(0.063) LED Chip
APTB1612SURKCGKC-F01			Water Clear			150°	
	AlGaInP	570		20	50		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	AlGaInP	630		40	80		Polarity mark / / APTB1612 1.2(0.047) 2 0 0 0 1
APTB1612SURKQBDC-F01		- 105	Water Clear			150°	$1.2(0.047)$ $2 \circ 4 \circ 4 \circ 3$ $4 \circ 4 \circ 3$ $2 \circ 4 \circ 4 \circ 3$ $4 \circ 4 \circ 4 \circ 3$
	InGaN	465		40	80		0.65(0.026) $0.00035)$ $0.00035)$ $0.00035)$ $0.00035)$ $0.00035)$ $0.00035)$ $0.00035)$ $0.00035)$ $0.00035)$
	AlGaInP	590		80	120		$4 \int \frac{1}{1} $
APTB1612SYKCGKC-F01	AlGaInP	570	Water Clear	20	50	150°	
	AlGaliir	570		20	50		Polarity mark Units: mm (inch) Tolerance: ± 0.2 (0.008)
	AlGaInP	630		40	80		1.6mm x 1.5mm x 0.7mm (Bi-Color)
APTB1615SURKCGKC-F01			Water Clear			150°	
	AlGaInP	570		20	50	100	(0.059) (0.033) 4 1 1 1 0.5(0.02) Polarity mark APTB1615
	AlGaliir	570		20	50		1_2(0.047) 1.1(0.043)
							$0.7(0.028) \qquad \qquad$
	AlGaInP	590		80	120		0.35(0.014)
APTB1615SYKCGKC-F01			Water Clear			150°	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
	AlGaInP	570		20	50		40
	AlGaInP	630		40	80		Tolerance: ± 0.2 (0.008) 1.6mm x 1.6mm x 0.7mm (Full Color)
APTF1616SURKCGKSYKC	AlGaInP	570	Water Clear	20	50	130°	
	AlGaInP	590		80	120	-	
	AlGaInP	621		55	110		(0.063) (0.033) (0.033) (0.033) 2 4 4 4 4 5 1 4 1 4 1 4 1 1 1 1 1 1 1 1 1 1
APTF1616SEEZGQBDC	InGaN	525	Water Clear	300	400	130°	Polarity marty 1.2(0.047) 1.2(0.047) 1.2(0.043) 3.0 + 10 - 1 Red
	InGaN	465		40	70	-	0.25(0.010)
	AlGaInP	625		200	360		$0.35(0.014)$ $0.35(0.014)$ $4 \xrightarrow{\text{Blue}}$ $4 \xrightarrow{\text{Blue}}$ $4 \xrightarrow{\text{Green}}$ $3 \xrightarrow{\text{Green}}$ $3 \xrightarrow{\text{Green}}$ $3 \xrightarrow{\text{Green}}$ $3 \xrightarrow{\text{Green}}$ $3 \xrightarrow{\text{Green}}$
APTF1616SEJ3ZGGVBDC	InGaN	525	Water Clear	500	750	130°	$\begin{array}{c c} 0.65 \\ (0.026) \\ \hline 2 \\ \hline \\$
	InGaN	470		80	140	-	Polarity mark Units: mm (inch) Tolerance: ± 0.2 (0.008)
APHBM2012SURKCGKC	AlGaInP	630	Water Clear	40	80	120°	2.0mm x 1.25mm x 0.45mm (0805 Super Thin, Bi-Color)
	AlGaInP	570		20	50		
APHBM2012SURKZGC	AlGaInP	630	Water Clear	40	80	120°	
	InGaN	525		300	500		Polarity mark APHBM2012
APHBM2012SURKZGKC	AlGaInP InGaN	630 525	Water Clear	40 300	80 450	120°	1.3(0.051)
	AlGalnP	570		20	50		0.4(0.016)
APHBM2012CGKSEKC	AlGaInP	605	Water Clear	80	180	120°	0.4(0.016) 0.45(0.018)Max. ↓ 0.15 ↓ 0.15 ↓ 0.15 ↓ 0.06) Red Green ↓ 0.20 ↓ 0.15 ↓ 0.
	AlGaInP	570		20	50		Green Yellow 30-↓⊂→4 30-↓⊂→4 0.5(0.02) 0.5(0.02) Green Yellow
APHBM2012CGKSYKC	AlGaInP	590	Water Clear	80	120	120°	
	InGaN	465	Matan Ol	40	80	4000	
APHBM2012QBDSURKC	AlGaInP	630	Water Clear	40	80	120°	(0.018) 2 Polarity mark Units: mm (inch) Tolerance: ± 0.1 (0.004)

18 www.KingbrightUSA.com

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MULTI-COLOR SMD LED

Part Number	Material	λD (nm)	Lens Type	lv (r @20 Min.	ncd) 0mA Typ.	Viewing Angle 201/2	Dimensions
	AlGaInP	625		200	400		2.5mm x 1.0mm x 0.7mm (Right Angle)
APFA2507R3G3C-CC	InGaN	525	Water Clear	300	500	130°	2.5(0.098)
	AlGaInP	621		20	40		
APFA2507R9Y2C	AlGaInP	590	Water Clear	80	130	130°	APFA2507
4.05.4.05.4.7.00.000	AlGaInP	621		20	40	1000	1(0.039)
APFA2507R9G2C	AlGaInP	570	Water Clear	20	45	130°	
	AlGaInP	621	Water Clear	20	40	1200	Polarity mark
APFA2507R9G2C-C2	AlGaInP	570	Water Clear	20	45	130°	
APFA2507Y2G2C-C2	AlGaInP	590	Water Clear	80	130	130°	0.35(0.014) 0.3(0.012) - 0.3(0.012)
APFA2307 12G2C-C2	AlGaInP	570	water Clear	20	45	130	0.35(0.014) 0.35(0.014)
APFA2507Y3G3-CC	AlGaInP	590	Water Clear	120	300	130°	APFA2507R3G3C-CC APFA2507R9Y2C APFA2507R9G2C
APFA2307 13G3-CC	InGaN	525	Water Clear	400	550	130	$ \begin{vmatrix} \begin{matrix} \downarrow \\ \downarrow \\ \downarrow \\ 1 \\ 2 \\ 3 \\ 4 \\ 1 \\ 2 \\ 3 \\ 4 \\ 1 \\ 2 \\ 3 \\ 4 \\ 1 \\ 2 \\ 3 \\ 4 \\ 1 \\ 2 \\ 3 \\ 4 \\ 1 \\ 2 \\ 3 \\ 4 \\ 1 \\ 2 \\ 3 \\ 4 \\ 6 \\ 6 \\ reen \\ \hline $
APFA2507B2R2C	InGaN	465	Water Clear	40	65	130°	neu green neu renow neu green
APPAZOU/ BZRZC	AlGaInP	630	Water Clear	55	80	130	APFA2507R9G2C-C2 APFA2507Y2G2-C2 APFA2507Y3G3-CC
APFA2507B2Y2C	InGaN	465	Water Clear	40	65	130°	Î 2 3 4 Î 2 3 4 Î 2 3 4 Red Green Yellow Green Yellow Green
AFTA2307B212C	AlGaInP	590	Water Clear	80	130	130	APFA2507B2R2C APFA2507B2Y2C APFA2507B2G2C
APFA2507B2G2C	InGaN	465	Water Clear	40	65	130°	
AFT A2307 B2020	AlGaInP	570		20	45	130	Blue Red Blue Yellow Blue Green
	InGaN	465		40	65		APFA2507QBDSEEZGKC
APFA2507QBDSEEZGKC	AlGaInP	621	Water Clear	80	110	130°	文 文 文 1 2 3 4 Blue Red Green
	InGaN	525		300	500		Units: mm (inch) Tolerance: ± 0.15 (0.006)
	AlGaInP	630		40	80		3.0mm x 2.0mm x 1.0mm (Right Angle, Bi-Color) 3(0.118)
APBA3010SURKCGKC-GX	AlGaInP	570	Water Clear	40	70	140°	3 2 2 1 1(0.039) APBA3010
	AlGaInP	605	Water Clear	80	150	140°	2(0.079) 1(0.039) $3 - 47 - 0 1\pm 0.2 2 - 45 - 1$
APBA3010SEKCGKC-GX	AlGaInP	570	Water Clear	40	70	140°	$2(0.079)$ $1(0.039)$ $1(0.039)$ $1(0.039)$ $1(0.039)$ $1(0.039)$ $1(0.039)$ $1(0.039)$ $1(0.039)$ $2 \leftarrow k \rightarrow 0$ $2 \leftarrow k \rightarrow 0$ $2 \leftarrow k \rightarrow 0$ Orange
APBA3010SYKCGKC-GX	AlGaInP	590	Water Clear	80	120	140°	0.58(0.023)
	AlGaInP	570	Trater Cical	40	70		Polarity mark 0.9(0.035) Units: mm (inch) Tolerance: ± 0.15 (0.006)

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MULTI-COLOR SMD LED

Part Number	Material	λD (nm)	Lens Type		ncd) 0mA Typ.	Viewing Angle 201/2	Dimensions
	AlGalnP	630		55	80		3.0mm x 1.5mm x 1.0mm (Right Angle, Full Color)
APFA3010SURKCGKSYKC	AlGaInP	570	Water Clear	20	45	150°	Polarity mark ²
	AlGaInP	590	-	120	180	-	3(0.118) 2(0.079) Green 1.5 Yellow
	AlGaInP	621	Water Clear	80	140		0.5(0.02) 0.5(0.02)
APFA3010SEEZGQBDC	InGaN	525		300	500	150°	$\begin{array}{c} 0.4(0.016) \\ 0.4(0.016) \\ 2 \\ \hline \end{array} \\ 2 \\ \hline \end{array} \\ 1 \\ 2 \\ \hline \end{array} \\ 2 \\ 2 \\ \hline \end{array} \\ 2 \\ 2 \\ \hline \end{array} \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\$
	InGaN	465	-	40	70		APFA3010SEEZGQBDC
							3.0mm x 1.5mm x 1.0mm (Right Angle, Full Color) 3(0.118)
	InGaN	470		80	150	-	
APFA3011-AK13/F	AlGaInP	625	Water Clear	200	410	150°	APFA3011
	InGaN	525		500	780		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
							3.0mm x 2.5mm x 1.1mm (Bi-Color)
	AlGaInP	AlGaInP 6 30		40	70		0.8(0.031) Polarity mark 4 Polarity ma
APB3025SURKCGKC-F01			Water Clear			160°	2(0.079) 1.5(0.059)
							1.1(0.043) Max, 10.039 H = 0.5(0.02) Red = 0
	AlGaInP	570		20	60		$0.5(0.02) \xrightarrow{4}{2} \xrightarrow{3}{0} 5(0.02)$
							Units: mm (inch) 1(0.039) Tolerance: ± 0.2 (0.008)
APBL3025SURKCGK-F01	AlGaInP	630		120	300		3.0mm x 2.5mm x 1.4mm (Bi-Color) 3(0.118) 2.5(0.098) Polarity mark
			Water Clear			50°	2(0.079) 1.5(0.059)
	AlGaInP	570	- Water Clear	80	150		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
							1(0.039) 2 1 1 Units: mm (inch) 1(0.039) Tolerance: ± 0.2 (0.008)

20 www.KingbrightUSA.com

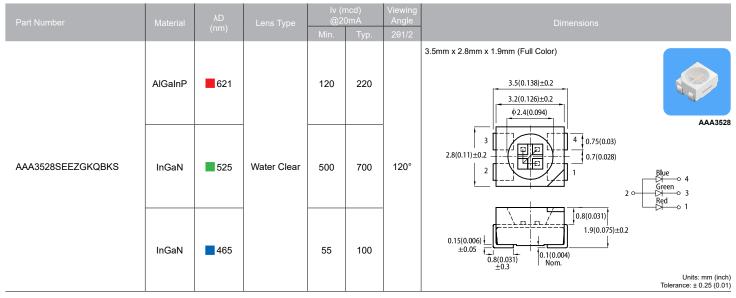
SMD LED

MULTI-COLOR SMD LED

Part Number	Material	λD (nm)	Lens Type		ncd) 0mA Typ.	Viewing Angle 201/2	Dimensions	
APBDA3020SURKCGKC-GX	AlGaInP	630	Water Clear	120	300	- 15°	3.0mm x 2.8mm x 2.0mm (Right Angle, Dome Lens)	
	AlGaInP	570		120	300		2(0.079) 3 R0.85(0.033)	APBDA3020 Red
	AlGaInP	570		120	280		2.8(0.11) $1.6(0.063)$ $0.5(0.02)$ $0.8(0.031)$ $0.8(0.031)$	$2 \longrightarrow 4 \longrightarrow 1$ $3 \longrightarrow 4 \longrightarrow 1$ Green $2 \longrightarrow 4 \longrightarrow 1$ Green $2 \longrightarrow 4 \longrightarrow 1$
APBDA3020CGKSYKC-GX	AlGaInP	590	- Water Clear	400	700	15°	Polarity mark 0.8(0.031)	3 ⊶≺→ ^I Yellow Units: mm (inch) Tolerance: ± 0.2 (0.008)
	AlGaInP	630		120	400		3.2mm x 2.4mm x 2.4mm (Dome Lens) Polarity mark 3.2(0.126)±0.2	
APBD3224SURKCGKC-F01	AlGaInP	570	Water Clear	80	280	20°	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	APBD3224
	AlGaInP	590		400	800		2.4(0.094) 1 10(0.039) 1 10(0.039) 1 0.5(0.02)	Red 2 0K]0 1 Green 4 0K]0 3 Ye ll ow
APBD3224SYKCGKC-F01	AlGaInP	570	Water Clear	80	280	20°	$\begin{array}{c} 0.8(0.031) \\ 4 \\ 2 \\ 2 \\ 0.\overline{6}(0.024) \end{array} \xrightarrow{4} \begin{array}{c} 3 \\ - \\ 1 \\ - \\ 1 \\ - \\ - \\ - \\ - \\ - \\ -$	2 0
							3.2mm x 2.7mm x 1.1mm (Bi-Color)	Tolerance: ± 0.1 (0.004)
APB3227SURKCGKC	AlGaInP	630		40	80	140°	LED Chip 1.4(0.055) 2.7(0.106)±0.2 2.7(0.106)±0.2 4 Polarity mark 2(0.079) 3.2(0.126)±0.2 0.25(0.01) 0.35(0.033) 4 2(0.079)	APB3227
APB3227SURNUGNU	AlGaInP 570	570	- Water Clear	20	55	140°	$\begin{array}{c} 2(0.09) \\ 1.1(0.043) \\ 0.55(0.022) \\ 0.55(0.022) \\ 0.55(0.023) \\ 1 \\ 0.55(0.02) \\ 1 \\ 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	Red 2 o O 1 Green 4 o O 3 Units: mm (inch) Tolerance: ± 0.1 (0.004)
	AlGaInP	621		80	140		3.2mm x 3.6mm x 1.1mm (Full Color) 3.2mm x 3.6mm x 1.1mm (Full Color) 3.2(0.126) 3.6(0.142) 1.2.6(0.102) 2.2 4 4 0.8(0.031) 2.6(0.102) 2.2 5 0.8(0.031)	
APF3236SEEZGQBDC	InGaN	525	Water Clear	300	450	150°	Polarity mark 0.5(0.02)	APF3236 1 ○ — K → ○ 4 Green
	InGaN	465		40	70		$1(0.039) \xrightarrow{2.1(0.083)} 6$ $0.3(0.012) \xrightarrow{1} 2 \xrightarrow{2} 5$ 4	2 0

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MULTI-COLOR SMD LED



SUBMINATURE SMD LED

Part Number	Material	λD	Lens Type	lv (mcd) @20mA		Viewing Angle	Dimensions	
		(nm)		Min.	Тур.	201/2		
AM2520SURCK03	AlGaInP	630	Water Clear	700	1200	20°	Subminiature Solid State Lamps Gull Wing Lead	
AM2520SYCK03	AlGaInP	590	Water Clear	1600	2700	20°	$0.5(0.02) \frac{1}{\pm 0.05} \frac{1}{1} \frac{1}{$	AM2520xxx03 K]—⊙ 2
AM2520CGCK03	AlGaInP	570	Water Clear	500	1000	20°	R0. <u>85(0.033)</u> ±0.1 0.6(0.024)	2.8(0.11) ±0.1
AM2520QBC/D03	InGaN	465	Water Clear	500	1300	20°	0.15(0.006) + 4.5(0.177)±0.5 + 0.13 Max. ±0.02 + 4.5(0.177)±0.5 + 10.13 Max. 2(0.07	9)±0.1 Units: mm (inch) Tolerance: ± 0.25 (0.01)
AM2520SURCK09	AlGaInP	630	Water Clear	700	1200	20°	Subminiature Solid State Lamps Z-Bend Lead	•
AM2520SECK09	AlGaInP	605	Water Clear	1900	3500	20°	0.5(0.02) ±0.05 1.1(0.043)±0.125 1.005 1.005 1.005 1.005 1.005 1.005	AM2520xxx09
AM2520CGCK09	AlGaInP	570	Water Clear	500	1000	20°	4.3(0.169)±0.3 4.3(0.17) 4.3(0.1	1.4(0.055)
AM2520QBC/D09	InGaN	465	Water Clear	500	1300	20°	R <u>0.85(0.033)</u> 3.05(0.12)Nom. 5.8(0.228)±0.3	Units: mm (inch) Tolerance: ± 0.25 (0.01)

22 www.KingbrightUSA.com

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REVERSE MOUNT SMD LED

Part Number	Material	λD (nm)	Lens Type	lv (r @20)mÁ	Viewing Angle	Dimensions
APTR3216SURCK	AlGalnP	630	Water Clear	Min. 40	Тур. 80	201/2 140°	3.2mm x 1.6mm x 1.05mm (1206 Reverse Mount)
AF 1132 10301/0K	AlGaliir	030		40	00	140	
APTR3216SECK	AlGaInP	605	Water Clear	80	180	140°	1.6 (0.063) 1 - 1 - 1 - 2 3.2(0.126) APTR3216
APTR3216SYCK	AlGaInP	<mark>5</mark> 90	Water Clear	80	150	140°	1.4(0.055)
APTR3216CGCK	AlGaInP	570	Water Clear	20	50	140°	$(0.041) \downarrow \downarrow$
APTR3216QBC/D	InGaN	465	Water Clear	40	100	140°	
APTL3216SURCK-01	AlGaInP	630	Water Clear	120	230	80°	3.2mm x 1.6mm x 1.1mm (1206 Reverse Mount)
APTL3216SECK-01	AlGaInP	605	Water Clear	200	350	80°	
APTL3216SYCK01	AlGaInP	<mark></mark> 590	Water Clear	200	350	80°	Polarity mark 0 1.1(0.043) R0.5(R0.02) 5° T 0.3(0.012) 1.1(0.043) 0.3(0.012)
APTL3216CGCK-01	AlGaInP	570	Water Clear	55	100	80°	↓ 0.25(0.01) 0.8(0.031) 2(0.079) Polarity mark
APTL3216QBC/D-01	InGaN	465	Water Clear	120	250	80°	1 Units: mm (inch) Tolerance: ± 0.1 (0.004)
AA3528SURCKT09	AlGaInP	630	Water Clear	55	100	120°	3.2mm x 2.8mm x 1.9mm (Reverse Mount)
AA3528SECKT/J309	AlGaInP	625	Water Clear	500	700	120°	AA3528xx09
AA3528SYCKT09	AlGaInP	590	Water Clear	120	250	120°	Polarity mark 4°±1 10-10-2
AA3528ZGCKT09	InGaN	525	Water Clear	500	1000	120°	0.8(0.031)±0.1 AA35285ECKT/J309
AA3528QBS/D09	InGaN	465	Water Clear	80	150	120°	$0.2(0.008)\pm0.1 \xrightarrow{1}_{5.2} (0.205) \xrightarrow{1}_{1.9} (0.075) \xrightarrow{1}_{0.15(0.006)\pm0.5} \underbrace{10}_{1.5(0.006)\pm0.5} \underbrace{10}_{1.5(0.$
AAA3528SURKCGKC09	AlGaInP	630	Water Clear	55	100		3.2mm x 2.8mm x 1.9mm (Reverse mount, Multi-Color)
	AlGaInP	570		40	80	120°	0.75(0.03) 2 0.7(0.028) 0.7
	AlGaInP	630		55	110		$4^{\circ}\pm 1$ AAA35285URKCGKC09 $2^{\circ} \xrightarrow{\text{Red}} 1$ $4^{\circ}\pm 1$
AAA3528RBGS/08-09	InGaN	465	Water Clear	55	100	120°	$30 \xrightarrow{-1} 0.8(0.031)\pm 0.1$ AAA3528RBG5/08-09 $Red \qquad 1$ Blue 1.9(0.075) Blue
	InGaN	525		500	700		0.15(0.006) ±0.05 ±0.05 Units: mm (inch) Tolerance: ± 0.2 (0.008)