

Kingbright



Optoelectronic Components

2025-2027

SMD LED

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.



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LOW CURRENT LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @2mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KPHD-1608LVSURCK	AlGaInP	630	water clear	4	15	100°	<p>1.6mm x 0.8mm x 0.65mm (0603)</p> <p>Units: mm (inch) Tolerance: ± 0.15 (0.006)</p>
KPHD-1608LVSYCK	AlGaInP	590	water clear	4	20	100°	
KPHD-1608LVCGCK	AlGaInP	570	water clear	2	8	100°	
KPHD-1608LVZGCK	InGaN	525	water clear	50	180	100°	
KPHD-1608LVQBC-D	InGaN	465	water clear	10	25	100°	
KPT-1608LVZGCK	InGaN	525	water clear	50	100	130°	<p>1.6mm x 0.8mm x 0.75mm (0603)</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
KPTD-1608LVSECK-J3-PF	AlGaInP	625	water clear	50	120	60°	<p>1.6mm x 0.8mm x 0.95mm (0603 Dome Lens)</p> <p>Units: mm (inch) Tolerance: ± 0.15 (0.006)</p>
KPTD-1608LVZGCK	InGaN	525	water clear	250	420	60°	
KPTD-1608LVVBC-D	InGaN	470	water clear	30	65	40°	
KPT-2012LVZGCK	InGaN	525	water clear	50	100	140°	<p>2.0mm x 1.25mm x 0.75mm (0805)</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>

NOTES:

1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.

LOW CURRENT LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @2mA		Viewing Angle	Dimensions
				Min.	Typ.		
KPTD-2012LVSRCK	AlGaInP	630	water clear	20	50	40°	2.0mm x 1.25mm x 1.05mm (0805 Dome Lens)
KPTD-2012LVCGCK	AlGaInP	570	water clear	20	40	40°	
KPA-2107LVZGCK	InGaN	525	water clear	50	100	170°	2.1mm x 1.0mm x 0.6mm (Right Angle)
KPA-2107LVVBC-D	InGaN	470	water clear	10	20	170°	
KPDA-3020LVZGCK	InGaN	525	water clear	700	1500	10°	3.0mm x 2.8mm x 2.0mm (Right Angle)
KPHB-1608LVZGKSURKC	InGaN	525	water clear	50	80	130°	1.6mm x 0.8mm x 0.5mm (0603 Bi-Color)
	AlGaInP	630		2	8		

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LOW CURRENT LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @2mA *5mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
KPTB-1612LVSURKCGKC	AlGaInP	630	water clear	4	9	150°	1.6mm x 1.25mm x 0.65mm (Bi-Color)
	AlGaInP	570		1.2	3		
KPHBM-2012LVSURKZGKC	AlGaInP	630	water clear	6	15	120°	2.0mm x 1.25mm x 0.45mm (0805 Super Thin, Bi-Color)
	InGaN	525		50	90		
KPHF-1608LRBGC-11-GX	AlGaInP	621	water clear	4	15	140°	1.6mm x 0.8mm x 0.5mm (0603 Full Color)
	InGaN	465		4	10		
	InGaN	525		50	90		
KPG-1005ZGC-5MAV	InGaN	525	water clear	*120	*280	140°	1.0mm x 0.5mm x 0.2mm (0402)
KPG-1005VBC-A1-5MAV	InGaN	468	water clear	*20	*60	140°	

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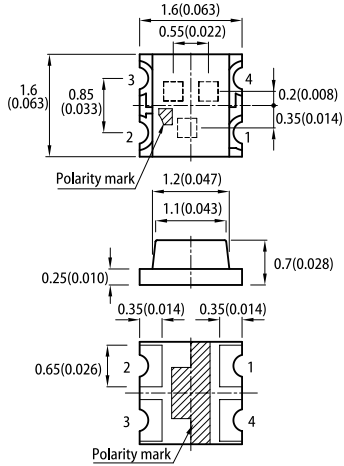

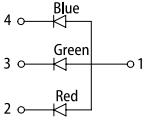
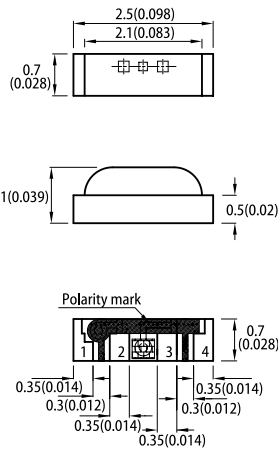

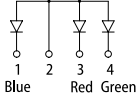
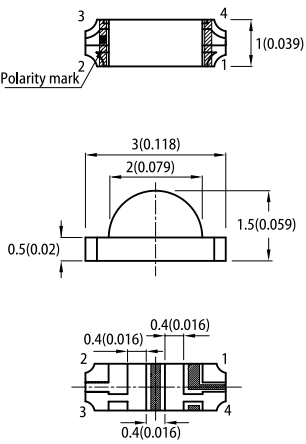

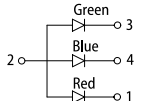
LOW CURRENT LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @5mA		Viewing Angle	Dimensions	
				Min.	Typ.			
KPGF-0606SEEKKSXYKC-TT	AlGaInP	624	water clear	30	80	140°	<p>0.65mm x 0.65mm x 0.2mm (Bi-Color)</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>	
	AlGaInP	589		10	17			
KPGF-0606SEEKCKGKXC-TT	AlGaInP	624	water clear	30	80	140°		
	AlGaInP	571		4	8			
KPGF-0606SEEKCKGKXC-TT-C2	AlGaInP	624	water clear	30	80	140°		
	AlGaInP	571		4	8			
KPGF-0606SYKCGKXC-TT-C2	AlGaInP	589	water clear	10	17	140°		
	AlGaInP	571		4	8			
KPGB-0607ZGSEEKKC-TT	InGaN	525	water clear	50	200	140°		<p>0.65mm x 0.65mm x 0.25mm (Bi-Color)</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
	AlGaInP	624		6	25			
KPGB-0607VBA1SEEKKC-TT	InGaN	468	water clear	10	40	140°		
	AlGaInP	624		6	25			
KPGB-0607VBA1SYKC-TT	InGaN	468	water clear	10	40	140°		
	AlGaInP	589		4	20			
KPGB-0607VBA1ZGC	InGaN	468	water clear	10	40	140°		
	InGaN	525		50	200			
KPGF-1012GBRC-07	InGaN	525	water clear	80	220	150°	<p>1.0mm x 1.0mm x 0.25 mm (Full Color)</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>	
	InGaN	465		10	23			
	AlGaInP	624		15	30			
KPBA-2006SURKVBDC-5MAV	AlGaInP	630	water clear	6	20	140°		<p>2.0mm x 1.05mm x 0.6mm (Right Angle, Bi-Color)</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
	InGaN	470		20	50			

NOTES:

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RGB SMD LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle	Dimensions
				Min.	Typ.		
KPTF-1616RGBC-11	AlGaInP	● 621	water clear	55	110	130°	1.6mm x 1.6mm x 0.7mm (Full Color)   KPTF-1616  Units: mm (inch) Tolerance: ± 0.2 (0.008)
	InGaN	● 525		300	400		
	InGaN	● 465		40	70		
KPFA-2507BRGC-11	InGaN	● 465	water clear	40	65	130°	2.5mm x 1.0mm x 0.7mm (Right Angle, Full Color)   KPFA-2507  Units: mm (inch) Tolerance: ± 0.15 (0.006)
	AlGaInP	● 621		80	110		
	InGaN	● 525		400	550		
KPFA-3010RGBC-11	AlGaInP	● 621	water clear	80	140	150°	3.0mm x 1.5mm x 1.0mm (Right Angle, Full Color)   KPFA-3010  Units: mm (inch) Tolerance: ± 0.2 (0.008)
	InGaN	● 525		300	500		
	InGaN	● 465		40	70		

NOTES:

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RGB SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle	Dimensions
				Min.	Typ.		
KPFA-3011BZ1RGZ1C-AK13/F	InGaN	470	water clear	80	150	150°	3.0mm x 1.5mm x 1.0mm (Right Angle, Full Color)
	AlGaInP	625		200	410		
	InGaN	525		500	780		
KAA-3528RBGS-08-09	AlGaInP	630	water clear	55	110	120°	3.2mm x 2.8mm x 1.9mm (Reverse mount, Full Color)
	InGaN	465		55	100		
	InGaN	525		500	700		
KPF-3236RGBC-11	AlGaInP	621	water clear	80	140	150°	3.2mm x 3.6mm x 1.1mm (Full Color)
	InGaN	525		300	450		
	InGaN	465		40	70		
KAA-3528RBGS-11	AlGaInP	621	water clear	120	220	120°	3.5mm x 2.8mm x 1.9mm (Full Color)
	InGaN	525		500	700		
	InGaN	465		55	100		

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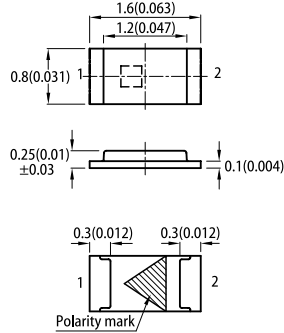

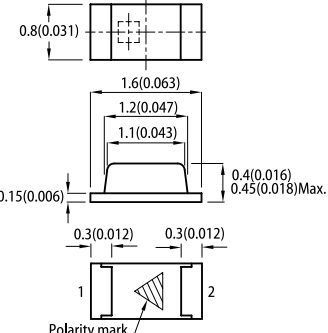

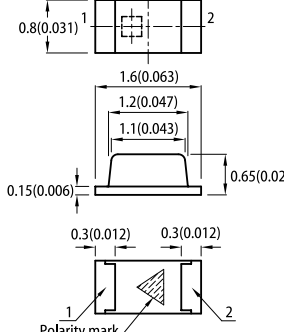

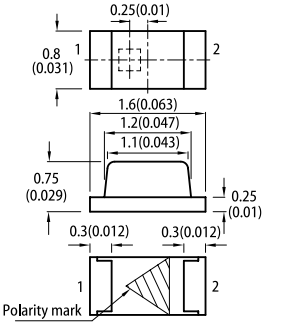
TOP-EMITTING CHIP SMD LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @ 20mA *10mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
KPG-0402SURKKC-TT	AlGaInP	631	water clear	*10	*35	140°	<p>0.45mm x 0.25mm x 0.2mm (01005)</p> <p>Units: mm (inch) Tolerance: ± 0.02 (0.001)</p>
KPG-0402SEKKC-TT	AlGaInP	605	water clear	*20	*50	140°	
KPG-0402SYKKC-TT	AlGaInP	585	water clear	*10	*30	140°	
KPG-0402CGKKC-TT	AlGaInP	571	water clear	*6	*15	140°	
KPG-0603SURC-TT	AlGaInP	631	water clear	*10	*35	140°	
KPG-0603CGC-TT	AlGaInP	571	water clear	*6	*15	140°	
KPG-1005CGC-TT	AlGaInP	571	water clear	12	35	120°	<p>1.0mm x 0.5mm x 0.2mm (0402)</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
KPHHS-1005SURCK	AlGaInP	630	water clear	40	70	120°	<p>1.0mm x 0.5mm x 0.5mm (0402)</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
KPHHS-1005SECK	AlGaInP	605	water clear	80	150	120°	
KPHHS-1005SYCK	AlGaInP	590	water clear	80	150	120°	
KPHHS-1005CGCK	AlGaInP	570	water clear	20	50	120°	
KPHHS-1005ZGC-V	InGaN	525	water clear	400	600	140°	
KPHHS-1005QBC-D-V	InGaN	465	water clear	40	60	140°	

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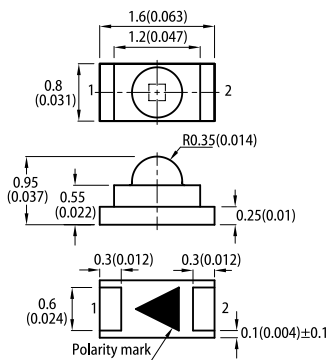

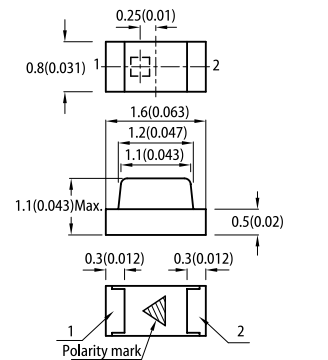

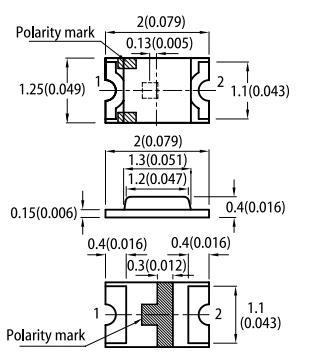

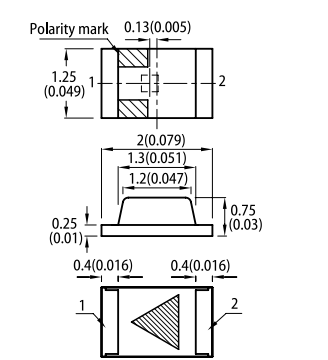
TOP-EMITTING CHIP SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KPG-1608SURKC-T	AlGaInP	630	water clear	55	110	120°	<p>1.6mm x 0.8mm x 0.25mm (0603)</p>  <p>KPG-1608</p>  <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
KPG-1608SEKC-T	AlGaInP	601	water clear	55	100	120°	
KPG-1608SYKC-T	AlGaInP	590	water clear	55	120	120°	
KPG-1608CGKC-T	AlGaInP	570	water clear	20	50	120°	
KPG-1608ZGC	InGaN	525	water clear	300	450	130°	
KPG-1608QBC-D	InGaN	465	water clear	40	100	130°	
KPHM-1608SURCK	AlGaInP	630	water clear	40	80	120°	<p>1.6mm x 0.8mm x 0.45mm (0603)</p>  <p>KPHM-1608</p>  <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
KPHM-1608SYCK	AlGaInP	590	water clear	80	150	120°	
KPHM-1608CGCK	AlGaInP	570	water clear	20	50	120°	
KPHM-1608QBC-D	InGaN	465	water clear	40	100	130°	
KPH-1608SURCK	AlGaInP	630	water clear	40	80	120°	<p>1.6mm x 0.8mm x 0.65mm (0603)</p>  <p>KPH-1608</p>  <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
KPH-1608SYCK	AlGaInP	590	water clear	80	150	120°	
KPH-1608CGCK	AlGaInP	570	water clear	20	50	120°	
KPT-1608SURCK	AlGaInP	630	water clear	40	80	120°	<p>1.6mm x 0.8mm x 0.75mm (0603)</p>  <p>KPT-1608</p>  <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
KPT-1608SECK	AlGaInP	605	water clear	80	180	120°	
KPT-1608SYCK	AlGaInP	590	water clear	80	150	120°	
KPT-1608CGCK	AlGaInP	570	water clear	20	50	120°	
KPT-1608ZGC	InGaN	525	water clear	300	600	130°	
KPT-1608VBC-D	InGaN	470	water clear	120	180	130°	
KPT-1608QBC-D	InGaN	465	water clear	40	100	130°	

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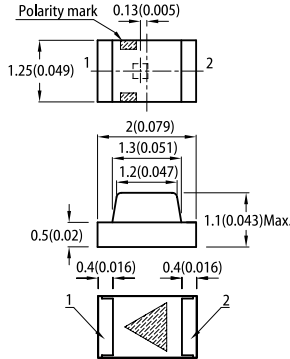
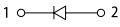

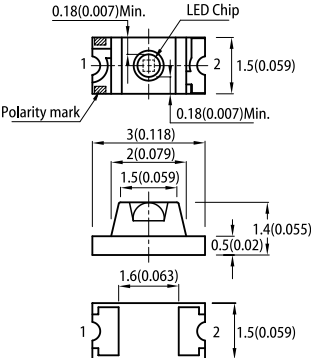
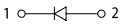

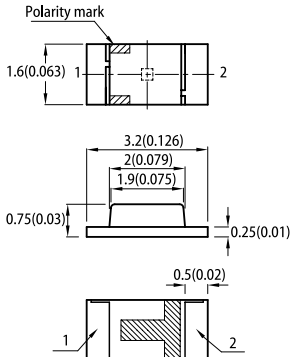
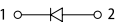

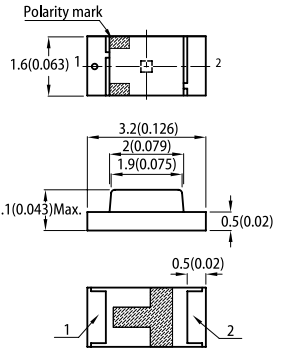
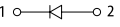
TOP-EMITTING CHIP SMD LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
KPTD-1608SURCK	AlGaInP	630	water clear	80	250	60°	1.6mm x 0.8mm x 0.95mm (0603 Dome Lens)  KPTD-1608  Units: mm (inch) Tolerance: ± 0.15 (0.006)
KPTD-1608SECK	AlGaInP	605	water clear	200	500	60°	
KPTD-1608SYCK	AlGaInP	590	water clear	300	600	60°	
KPTD-1608CGCK	AlGaInP	570	water clear	80	190	60°	
KPTD-1608ZGC	InGaN	525	water clear	700	1300	60°	
KPTD-1608VBC-D	InGaN	470	water clear	200	350	40°	
KPTD-1608QBC-D	InGaN	465	water clear	80	200	40°	
KP-1608SURCK	AlGaInP	630	water clear	40	80	120°	1.6mm x 0.8mm x 1.1mm (0603)  KP-1608  Units: mm (inch) Tolerance: ± 0.1 (0.004)
KP-1608SECK	AlGaInP	605	water clear	80	180	120°	
KP-1608SYCK	AlGaInP	590	water clear	80	150	120°	
KP-1608CGCK	AlGaInP	570	water clear	20	50	120°	
KP-1608ZGC	InGaN	525	water clear	300	600	130°	
KP-1608QBC-D	InGaN	465	water clear	40	100	130°	
KPHCM-2012SURCK	AlGaInP	630	water clear	40	80	140°	2.0mm x 1.25mm x 0.4mm (0805)  KPHCM-2012  Units: mm (inch) Tolerance: ± 0.1 (0.004)
KPHCM-2012SECK	AlGaInP	605	water clear	80	180	140°	
KPHCM-2012SYCK	AlGaInP	590	water clear	80	150	140°	
KPHCM-2012CGCK	AlGaInP	570	water clear	20	50	140°	
KPHCM-2012ZGC	InGaN	525	water clear	300	600	140°	
KPHCM-2012QBC-D	InGaN	465	water clear	40	100	140°	
KPT-2012SURCK	AlGaInP	630	water clear	40	80	140°	2.0mm x 1.25mm x 0.75mm (0805)  KPT-2012  Units: mm (inch) Tolerance: ± 0.1 (0.004)
KPT-2012SECK	AlGaInP	605	water clear	80	180	140°	
KPT-2012SYCK	AlGaInP	590	water clear	80	150	140°	
KPT-2012CGCK	AlGaInP	570	water clear	20	50	140°	
KPT-2012ZGC	InGaN	525	water clear	300	600	140°	
KPT-2012VBC-D	InGaN	470	water clear	120	180	140°	
KPT-2012QBC-D	InGaN	465	water clear	40	100	140°	

NOTES:

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2. Luminous intensity value is traceable to CIE127-2007 standards.

TOP-EMITTING CHIP SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KP-2012SURCK	AlGaInP	630	water clear	40	80	140°	<p>2.0mm x 1.25mm x 1.1mm (0805)</p>  <p>KP-2012</p>   <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
KP-2012SECK	AlGaInP	605	water clear	80	180	140°	
KP-2012SYCK	AlGaInP	590	water clear	80	150	140°	
KP-2012CGCK	AlGaInP	570	water clear	20	50	140°	
KP-2012ZGC	InGaN	525	water clear	300	600	140°	
KP-2012QBC-D	InGaN	465	water clear	40	100	140°	
KPL-3015SURCK	AlGaInP	630	water clear	120	180	70°	<p>3.0mm x 1.5mm x 1.4mm</p>  <p>KPL-3015</p>   <p>Units: mm (inch) Tolerance: ± 0.2 (0.008)</p>
KPL-3015SECK	AlGaInP	605	water clear	120	350	70°	
KPL-3015SYCK	AlGaInP	590	water clear	200	350	70°	
KPL-3015CGCK	AlGaInP	570	water clear	55	120	70°	
KPL-3015ZGC	InGaN	525	water clear	1000	1500	50°	
KPT-3216SURCK	AlGaInP	630	water clear	40	80	140°	<p>3.2mm x 1.6mm x 0.75mm (1206)</p>  <p>KPT-3216</p>   <p>Units: mm (inch) Tolerance: ± 0.2 (0.008)</p>
KPT-3216SECK	AlGaInP	605	water clear	80	180	140°	
KPT-3216SYCK	AlGaInP	590	water clear	80	150	140°	
KPT-3216CGCK	AlGaInP	570	water clear	20	50	140°	
KPT-3216ZGC	InGaN	525	water clear	300	600	150°	
KPT-3216QBC-D	InGaN	465	water clear	40	100	150°	
KP-3216SURCK	AlGaInP	630	water clear	40	80	140°	<p>3.2mm x 1.6mm x 1.1mm (1206)</p>  <p>KP-3216</p>   <p>Units: mm (inch) Tolerance: ± 0.2 (0.008)</p>
KP-3216SECK	AlGaInP	605	water clear	80	180	140°	
KP-3216SYCK	AlGaInP	590	water clear	80	150	140°	
KP-3216CGCK	AlGaInP	570	water clear	20	50	140°	
KP-3216ZGC	InGaN	525	water clear	300	600	150°	
KP-3216QBC-D	InGaN	465	water clear	40	100	150°	

NOTES:

1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.


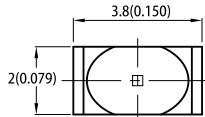
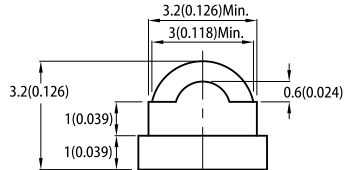
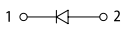
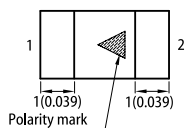
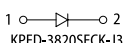
TOP-EMITTING CHIP SMD LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
KPTL-3216SURCK	AlGaInP	630	water clear	120	230	80°	<p>3.2mm x 1.6mm x 1.1mm (1206)</p> <p>KPTL-3216</p>
KPTL-3216SECK	AlGaInP	605	water clear	200	350	80°	
KPTL-3216SYCK	AlGaInP	590	water clear	200	350	80°	
KPTL-3216CGCK	AlGaInP	570	water clear	55	100	80°	
KPTL-3216ZGC	InGaN	525	water clear	700	1100	80°	
KPTL-3216QBC-D	InGaN	465	water clear	120	250	80°	
KPTD-3216SURCK	AlGaInP	630	water clear	300	800	40°	<p>3.2mm x 1.6mm x 1.8mm (1206 Dome Lens)</p> <p>KPTD-3216</p>
KPTD-3216SECK	AlGaInP	605	water clear	500	1000	40°	
KPTD-3216SYCK	AlGaInP	590	water clear	700	800	40°	
KPTD-3216CGCK	AlGaInP	570	water clear	120	300	40°	
KPTD-3216ZGC	InGaN	525	water clear	2700	4200	30°	
KPTD-3216QBC-D	InGaN	465	water clear	300	700	30°	
KPD-3224SURCK	AlGaInP	630	water clear	1000	1300	20°	<p>3.2mm x 2.4mm x 2.4mm (Dome Lens)</p> <p>KPD-3224</p>
KPD-3224SECK	AlGaInP	605	water clear	1000	1600	20°	
KPD-3224SYCK	AlGaInP	590	water clear	1300	1600	20°	
KPD-3224CGCK	AlGaInP	570	water clear	500	900	20°	
KPD-3224ZGC	InGaN	525	water clear	3600	7000	20°	
KPD-3224QBC-D	InGaN	465	water clear	500	900	20°	
KPED-3528SURCK	AlGaInP	630	water clear	120	250	70°	<p>3.5mm x 2.8mm x 3.2mm (Dome Lens)</p> <p>KPED-3528</p>
KPED-3528SECK	AlGaInP	605	water clear	400	700	70°	
KPED-3528CGCK	AlGaInP	570	water clear	80	200	70°	

NOTES:


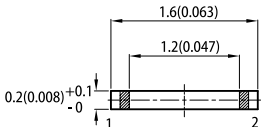
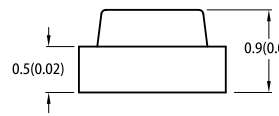
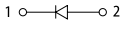
1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.

TOP-EMITTING CHIP SMD LED

Part Number	Material	λ D (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KPED-3820SECK-J3	AlGaInP	625	water clear	1000	1700	60°(H) 35°(V)	3.8mm x 2.0mm x 3.2mm (Dome Lens)  
KPED-3820ZGC-G	InGaN	525	water clear	1900	2700	60°(H) 35°(V)	 
KPED-3820VBC-D	InGaN	470	water clear	500	750	60°(H) 35°(V)	 

Units: mm (inch)
Tolerance: ± 0.2 (0.008)

RIGHT ANGLE SMD LED

Part Number	Material	λ D (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KPGA-1602CGC-KA	AlGaInP	571	water clear	12	30	150°	1.6mm x 0.9mm x 0.2mm (Right Angle)  
KPA-1606SURCK	AlGaInP	630	water clear	55	80	110°	 
KPA-1606SECK	AlGaInP	605	water clear	80	180	110°	
KPA-1606SYCK	AlGaInP	590	water clear	80	150	110°	
KPA-1606CGCK	AlGaInP	570	water clear	20	50	110°	
KPA-1606ZGC	InGaN	525	water clear	200	400	110°	
KPA-1606VBC-D	InGaN	470	water clear	120	200	110°	
KPA-1606QBC-D	InGaN	465	water clear	40	80	110°	

Units: mm (inch)
Tolerance: ± 0.1 (0.004)

NOTES:

1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.

RIGHT ANGLE SMD LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
KPDA-1806ZGCK	InGaN	525	water clear	1900	3200	25°	1.8mm x 1.5mm x 0.6 mm (Right Angle)
KPDA-1806VBC-D	InGaN	470	water clear	400	800	25°	<p>Units: mm (inch) Tolerance: ± 0.15 (0.006)</p>
KPA-2107SURCK	AlGaInP	630	water clear	55	80	140°	2.1mm x 1.0mm x 0.6mm (Right Angle)
KPA-2107SURCK	AlGaInP	630	water clear	55	80	140°	<p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
KA-2810ASURSK	AlGaInP	630	water clear	40	100	110°	2.8mm x 1.2mm x 0.8mm (Right Angle)
KA-2810ASESK-J3	AlGaInP	625	water clear	300	500	110°	
KA-2810ACGSK	AlGaInP	570	water clear	40	70	110°	
KA-2810AZGS	InGaN	525	water clear	500	850	110°	
KA-2810AZGS-G	InGaN	525	water clear	1000	1400	110°	
KA-2810AVBS-D	InGaN	470	water clear	200	350	110°	

NOTES:

1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.

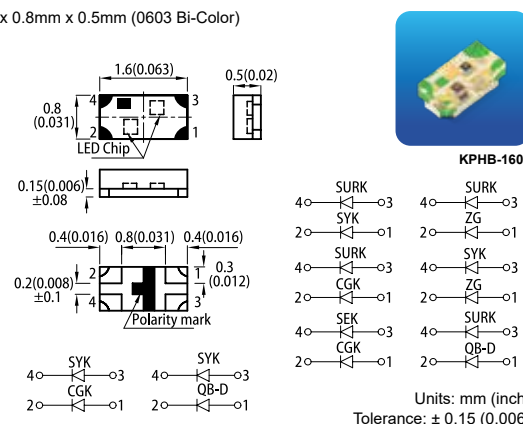
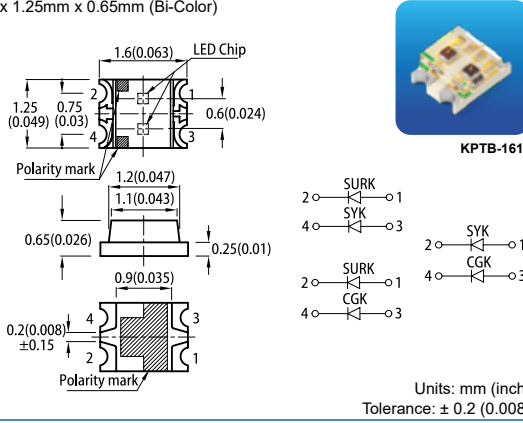
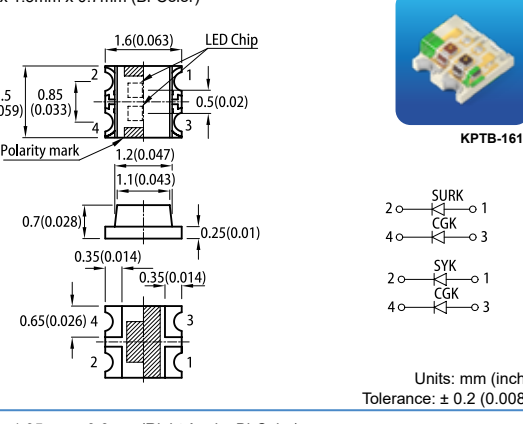
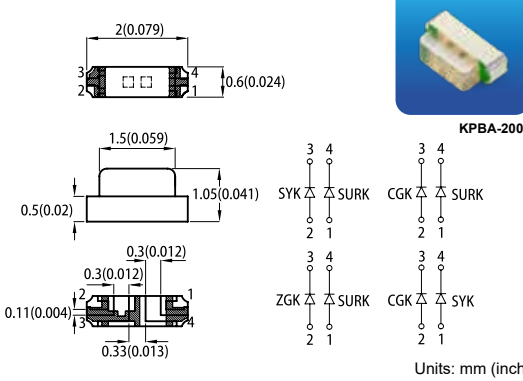
RIGHT ANGLE SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle	Dimensions
				Min.	Typ.		
KPA-3010SURCK	AlGaInP	630	water clear	55	80	120°	<p>3.0mm x 2.0mm x 1.0mm (Right Angle)</p> <p>KPA-3010</p> <p>Units: mm (inch) Tolerance: ± 0.15 (0.006)</p>
KPA-3010SECK	AlGaInP	605	water clear	80	180	120°	
KPA-3010SYCK	AlGaInP	590	water clear	80	150	120°	
KPA-3010CGCK	AlGaInP	570	water clear	20	50	120°	
KPA-3010ZGC	InGaN	525	water clear	200	400	120°	
KPA-3010QBC-D	InGaN	465	water clear	40	80	120°	
KPDA-3020SECK-J3-PF	AlGaInP	625	water clear	2300	3800	10°	<p>3.0mm x 2.8mm x 2.0mm (Right Angle, Dome Lens)</p> <p>KPDA-3020</p> <p>Units: mm (inch) Tolerance: ± 0.2 (0.008)</p>
KA-4008VBS-D	InGaN	470	water clear	300	450	120°	<p>4.0mm x 1.4mm x 0.8mm (Right Angle)</p> <p>KA-4008</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
KA-4040QBS-D	InGaN	465	water clear	80	220	120°	<p>4.0mm x 4.0mm x 3.6mm (Right Angle)</p> <p>KA-4040</p> <p>Units: mm (inch) Tolerance: ± 0.25 (0.01)</p>

NOTES:

1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.

MULTI-COLOR SMD LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle 2θ1/2	Dimensions		
				Min.	Typ.				
KPHB-1608SYKSURKC-GX	AlGaInP	590	water clear	80	150	130°	1.6mm x 0.8mm x 0.5mm (0603 Bi-Color) 		
	AlGaInP	630		40	90				
KPHB-1608CGKSURKC-GX	AlGaInP	570	water clear	20	50	130°			
	AlGaInP	630		40	90				
KPHB-1608CGKSEKC-GX	AlGaInP	570	water clear	20	50	130°			
	AlGaInP	605		80	200				
KPHB-1608CGKSYKC-GX	AlGaInP	570	water clear	20	50	130°			
	AlGaInP	590		80	150				
KPHB-1608ZGSURKC-GX	InGaN	525	water clear	200	400	130°			
	AlGaInP	630		40	90				
KPHB-1608ZGSYKC-GX	InGaN	525	water clear	200	400	130°			
	AlGaInP	590		80	150				
KPHB-1608QBDSURKC-GX	InGaN	465	water clear	40	70	130°			
	AlGaInP	630		40	90				
KPHB-1608QBDSYKC-GX	InGaN	465	water clear	40	70	130°			
	AlGaInP	590		80	150				
KPTB-1612SURKSYKC	AlGaInP	630	water clear	40	80	150°	1.6mm x 1.25mm x 0.65mm (Bi-Color) 		
	AlGaInP	590		80	120				
KPTB-1612SURKCGKC	AlGaInP	630	water clear	40	80	150°			
	AlGaInP	570		20	50				
KPTB-1612SYKCGKC	AlGaInP	590	water clear	80	120	150°			
	AlGaInP	570		20	50				
KPTB-1615SURKCGKC	AlGaInP	630	water clear	40	80	150°		1.6mm x 1.5mm x 0.7mm (Bi-Color) 	
	AlGaInP	570		20	50				
KPTB-1615SYKCGKC	AlGaInP	590	water clear	80	120	150°			
	AlGaInP	570		20	50				
KPBA-2006SURKSYKC	AlGaInP	630	water clear	20	80	140°			2.0mm x 1.05mm x 0.6mm (Right Angle, Bi-Color) 
	AlGaInP	590		40	100				
KPBA-2006SURKCGKC	AlGaInP	630	water clear	20	80	140°			
	AlGaInP	570		8	40				
KPBA-2006SURKZGKC	AlGaInP	630	water clear	20	80	140°			
	InGaN	525		100	450				
KPBA-2006SYKCGKC	AlGaInP	590	water clear	40	100	140°			
	AlGaInP	570		8	40				

NOTES:

1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.

MULTI-COLOR SMD LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle	Dimensions	
				Min.	Typ.			
KPHBM-2012SURKCGKC	AlGaInP	630	water clear	40	80	120°	2.0mm x 1.25mm x 0.45mm (0805 Super Thin, Bi-Color) KPHBM-2012 Units: mm (inch) Tolerance: ± 0.1 (0.004)	
	AlGaInP	570		20	50			
KPHBM-2012CGKSEKC	AlGaInP	570	water clear	20	50	120°		
	AlGaInP	605		80	180			
KPHBM-2012CGKSYKC	AlGaInP	570	water clear	20	50	120°		
	AlGaInP	590		80	120			
KPHBM-2012QBDSURKC	InGaN	465	water clear	40	80	120°		
	AlGaInP	630		40	80			
KPBA-3010SURKCGKC	AlGaInP	630	water clear	40	80	140°		3.0mm x 2.0mm x 1.0mm (Right Angle, Bi-Color) KPBA-3010 Units: mm (inch) Tolerance: ± 0.15 (0.006)
	AlGaInP	570		40	70			
KPBA-3010SURKQBDC	AlGaInP	630	water clear	40	80	140°		
	InGaN	465		40	90			
KPBA-3010SEKCGKC	AlGaInP	605	water clear	80	150	140°		
	AlGaInP	570		40	70			
KPBA-3010SYKCGKC	AlGaInP	590	water clear	80	120	140°		
	AlGaInP	570		40	70			
KM-23SURKMGKC	AlGaInP	630	water clear	40	60	160°	SOT-23 Surface Mount LED Lamp (3mm x 1.3mm) KM-23 Units: mm (inch) Tolerance: ± 0.25 (0.01)	
	AlGaInP	570		20	55			
KPB-3025SURKCGKC	AlGaInP	630	water clear	40	70	160°		3.0mm x 2.5mm x 1.1mm (Bi-Color) KPB-3025 Units: mm (inch) Tolerance: ± 0.2 (0.008)
	AlGaInP	570		20	60			
KPB-3025SURKSYKC	AlGaInP	630	water clear	40	70	160°		
	AlGaInP	590		80	120			

NOTES:

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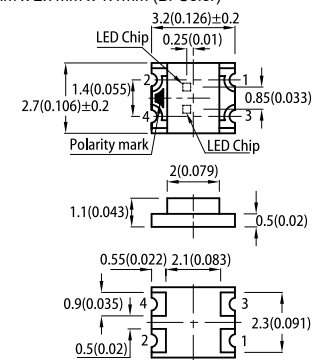

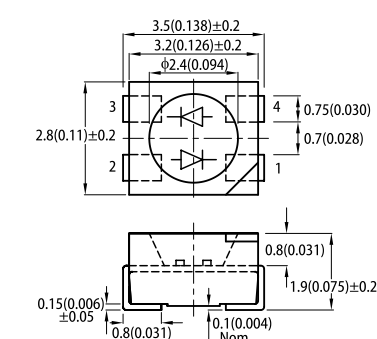

MULTI-COLOR SMD LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
KPBL-3025SURKCGKC	AlGaInP	630	water clear	120	300	50°	3.0mm x 2.5mm x 1.4mm (Bi-Color) KPBL-3025 SURK → 1 CGK → 3 Units: mm (inch) Tolerance: ± 0.2 (0.008)
	AlGaInP	570		80	150		
KPBDA-3020SURKCGKC-PF	AlGaInP	630	water clear	120	300	15°	3.0mm x 2.8mm x 2.0mm (Right Angle, Dome Lens) KPBDA-3020 SURK → 1 CGK → 3 Units: mm (inch) Tolerance: ± 0.2 (0.008)
	AlGaInP	570		120	300		
KPTBD-3216SURKCGKC	AlGaInP	630	water clear	300	600	30°	3.2mm x 1.6mm x 1.8mm (1206 Dome Lens) KPTBD-3216 SURK → 1 CGK → 3 Units: mm (inch) Tolerance: ± 0.2 (0.008)
	AlGaInP	570		120	250		
KPBD-3224SURKCGKC	AlGaInP	630	water clear	120	400	20°	3.2mm x 2.4mm x 2.4mm (Dome Lens) KPBD-3224 SURK → 1 CGK → 3 Units: mm (inch) Tolerance: ± 0.2 (0.008)
	AlGaInP	570		80	280		
KPBD-3224SURKZGC	AlGaInP	630	water clear	120	400	20°	 KPBD-3224 SURK → 1 CGK → 3 SURK → 1 ZG → 3 Units: mm (inch) Tolerance: ± 0.1 (0.004)
	InGaN	525		500	950		
KPBD-3224SYKCGKC	AlGaInP	590	water clear	400	800	20°	 KPBD-3224 SYK → 1 CGK → 3 Units: mm (inch) Tolerance: ± 0.1 (0.004)
	AlGaInP	570		80	280		

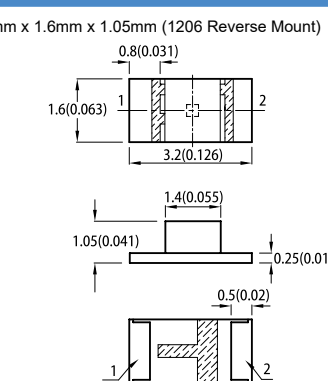

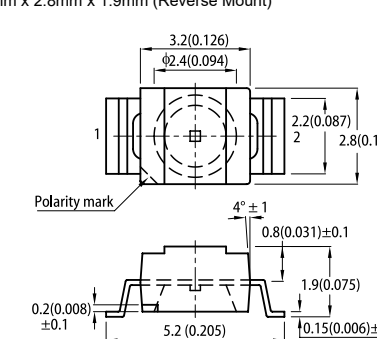

NOTES:

1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.

MULTI-COLOR SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KPB-3227SURKCGKC	AlGaInP	630	water clear	40	80	140°	3.2mm x 2.7mm x 1.1mm (Bi-Color)   KPB-3227 2 \circ SURK \circ 1 4 \circ CGK \circ 3 Units: mm (inch) Tolerance: ± 0.1 (0.004)
	AlGaInP	570		20	55		
KAA-3528SURKCGKCT	AlGaInP	630	water clear	55	100	120°	3.5mm x 2.8mm x 1.9mm (Bi-Color)   KAA-3528 3 \circ CGK \circ 4 2 \circ SURK \circ 1 Units: mm (inch) Tolerance: ± 0.25 (0.01)
	AlGaInP	570		40	80		

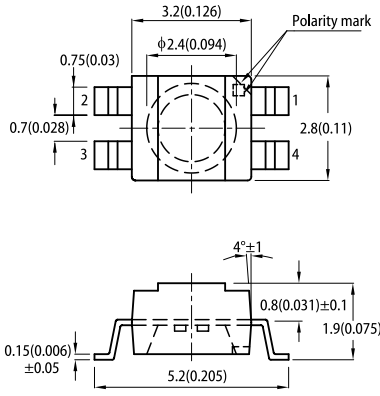
REVERSE MOUNT SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KPTR-3216SURCK	AlGaInP	630	water clear	40	80	140°	3.2mm x 1.6mm x 1.05mm (1206 Reverse Mount)   KPTR-3216 1 \circ \circ 2 Units: mm (inch) Tolerance: ± 0.2 (0.008)
KPTR-3216SECK	AlGaInP	605	water clear	80	180	140°	
KPTR-3216SYCK	AlGaInP	590	water clear	80	150	140°	
KPTR-3216CGCK	AlGaInP	570	water clear	20	50	140°	
KPTR-3216ZGCK	InGaIn	525	water clear	300	600	140°	
KPTR-3216QBC-D	InGaIn	465	water clear	40	100	140°	3.2mm x 2.8mm x 1.9mm (Reverse Mount)   KA-3528XX09 1 \circ \circ 2 KA-3528SECKT-J3-09 1 \circ \circ 2 Units: mm (inch) Tolerance: ± 0.25 (0.01)
KA-3528SURCKT-09	AlGaInP	630	water clear	55	100	120°	
KA-3528SECKT-J3-09	AlGaInP	625	water clear	500	700	120°	
KA-3528SYCKT-09	AlGaInP	590	water clear	120	250	120°	
KA-3528ZGCKT-09	InGaIn	525	water clear	500	1000	120°	
KA-3528QBS-D-09	InGaIn	465	water clear	80	150	120°	

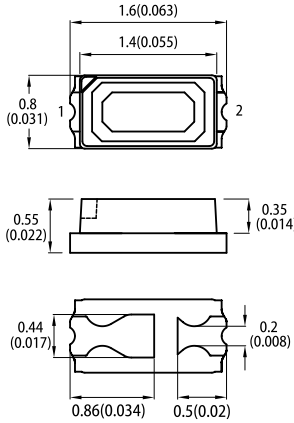
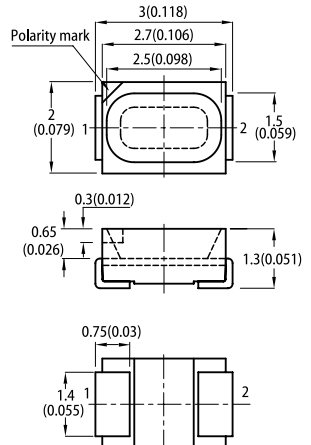
NOTES:

1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.

REVERSE MOUNT SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KAA-3528SURKCGKCT-09	AlGaInP	630	water clear	55	100	120°	3.2mm x 2.8mm x 1.9mm (Reverse mount, Multi-Color) 
	AlGaInP	570		40	80		

TOP-EMITTING PLCC SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @ 20mA *10mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KA-1608SURSK	AlGaInP	630	water clear	40	160	120°	1.6mm x 0.8mm x 0.55mm (0603) 
KA-1608SYSK	AlGaInP	590	water clear	55	240	120°	
KA-1608CGSK	AlGaInP	570	water clear	40	80	120°	
KA-1608VBS-A1-10MAV	InGaN	468	water clear	*50	*160	120°	
KA-3021SURSK	AlGaInP	630	water clear	40	90	120°	3.0mm x 2.0mm x 1.3mm 
KA-3021CGSK	AlGaInP	570	water clear	40	80	120°	
KA-3021ZGS	InGaN	525	water clear	400	800	120°	
KA-3021QBS-D	InGaN	465	water clear	80	120	120°	

NOTE:

1. Luminous intensity value is traceable to CIE127-2007 standards.

TOP-EMITTING PLCC SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @ 20mA *50mA **30mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KA-3527ASYSK-J3-50MAV	AlGaInP	590	water clear	*1000	*1500	120°	<p>3.5mm x 2.7mm x 1.9mm</p> <p>Units: mm (inch) Tolerance: ± 0.25 (0.01)</p>
KA-3527AZGSK-30MAV	InGaN	525	water clear	**500	**700	120°	
KA-3527AVBS-D-30MAV	InGaN	470	water clear	**300	**600	120°	
KA-3528SURCKT	AlGaInP	630	water clear	55	100	120°	<p>3.5mm x 2.8mm x 1.9mm</p> <p>Units: mm (inch) Tolerance: ± 0.25 (0.01)</p>
KA-3528SECKT	AlGaInP	605	water clear	120	230	120°	
KA-3528SYCKT	AlGaInP	590	water clear	120	250	120°	
KA-3528CGCKT	AlGaInP	570	water clear	40	100	120°	
KA-3528ZGCKT	InGaN	525	water clear	500	1000	120°	
KA-3528VBS-D	InGaN	470	water clear	300	450	120°	
KA-3528QBS-D	InGaN	465	water clear	80	150	120°	

SUBMINATURE SMD LED

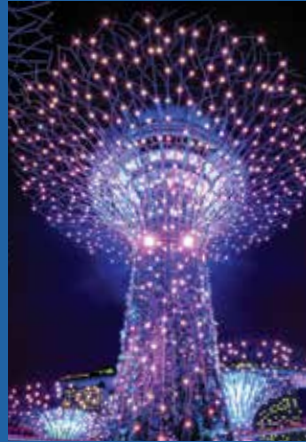
Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @ 20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KM2520SURCK03	AlGaInP	630	water clear	700	1200	20°	<p>Subminiature Solid State Lamps Gull Wing Lead</p> <p>Units: mm (inch) Tolerance: ± 0.25 (0.01)</p>
KM2520SYCK03	AlGaInP	590	water clear	1600	2700	20°	
KM2520CGCK03	AlGaInP	570	water clear	500	1000	20°	
KM2520ZGC03	InGaN	525	water clear	4200	7000	20°	
KM2520QBC-D03	InGaN	465	water clear	500	1300	20°	
KM2520SURCK09	AlGaInP	630	water clear	700	1200	20°	<p>Subminiature Solid State Lamps Z-Bend Lead</p> <p>Units: mm (inch) Tolerance: ± 0.25 (0.01)</p>
KM2520SECK09	AlGaInP	605	water clear	1900	3500	20°	
KM2520CGCK09	AlGaInP	570	water clear	500	1000	20°	
KM2520QBC-D09	InGaN	465	water clear	500	1300	20°	

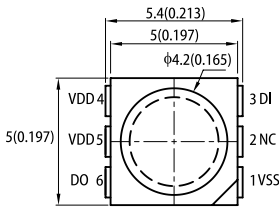
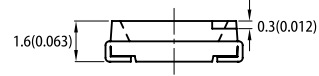
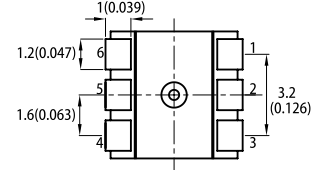
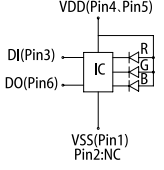
NOTE:

1. Luminous intensity value is traceable to CIE127-2007 standards.

Chameleon RGB+IC

Kingbright's RGB+IC integrates the control circuit and RGB chip for complete control of pixel points. With each color being controlled individually, our RGB+IC SMD LED can achieve 256 - level gray scale, which is ideal for decorative and entertainment lighting applications, commercial and residential architectural lighting, or signage applications.



Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @ VDD = 5V, Gray Scale Level = 255		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KAAF-5050RGBST-IC12	AlGaInP	● 625	water clear	200	360	120°	5.0mm x 5.0mm x 1.6mm (RGB+IC)     Units: mm (inch) Tolerance: \pm 0.2 (0.008)
	InGaN	● 525		400	600		
	InGaN	● 465		80	150		

PIN FUNCTION		
No.	Symbol	Function Description
1	VSS	Ground
2	NC	/
3	DI	Control data signal input
4	VDD	Power supply LED
5	VDD	Power supply LED
6	DO	Control data signal output