Kingbright

Optoelectronic Components

SMD LED 9 Top-Emitting PLCC SMD LED 9 **Top-Emitting Chip SMD LED** 10 Right Angle SMD LED 16 Multi-Color SMD LED 19 Subminiature SMD LED 23 Reverse Mount SMD LED 25 SOT-23 SMD LED 25 **Ambient Light Sensor** Color Sensor 26

TOP-EMITTING PLCC SMD LED

PART NUMBER	MATERIAL	λD	LENS TYPE		ncd) 0mA	VIEWING ANGLE	DIMENSION
		(nm)		MIN.	TYP.	201/2	
KA-2214SURSK	AlGaInP	630	water clear	180	400	120°	2.2mm x 1.4mm
KA-2214SESK	AlGaInP	601	water clear	280	450	120°	2.2[0.087] 2[0.079] 1.65[0.065] 800 0 1 2
KA-2214MGS	AlGaInP	5 70	water clear	50	150	120°	2 POLARITY MARK
KA-2214CGSK	AlGaInP	570	water clear	50	100	120°	1 - 2 1 - 2
KA-2214ZGS	InGaN	525	water clear	280	550	120°	0.4 1.4 0.4 [0.016] [0.055] [0.016]
KA-2214QBS-G	InGaN	465	water clear	110	300	120°	1 Units : mm(inch) Tolerance : ±0.2(0.008)
KA-3021SURCKT	AlGalnP	6 30	water clear	70	200	125°	3.0mm x 2.0mm (1208)
KA-3021SECKT	AlGalnP	6 01	water clear	180	400	125°	3[0.118]
KA-3021SYCKT	AlGalnP	- 590	water clear	110	200	125°	2.7[0.106]
KA-3021MGCT	AlGaInP	570	water clear	50	100	125°	[2.5[0.098] KA-3021
KA-3021CGCKT	AlGaInP	570	water clear	50	85	125°	
KA-3021ZGCT	InGaN	525	water clear	380	500	125°	3.00
KA-3021ZGCT-E	InGaN	525	water clear	900	1500	125°	20.05 1.20
KA-3021ZGCT-G	InGaN	525	water clear	1200	1600	125°	·
KA-3021QBCT-D	InGaN	470	water clear	50	150	125°	0.75[0.03]
KA-3021QBCT-F	InGaN	465	water clear	110	250	125°	650.05
KA-3021QBCT-G	InGaN	465	water clear	180	350	125°	Units : mm(inch) Tolerance : ±0.25(0.01)
KA-3022ECT-4.5SF	GaAsP/GaP	625	water clear	7	30	90°	3.0mm x 2.2mm
KA-3022SRCT-4.5SF	GaAlAs	6 40	water clear	36	150	90°	
KA-3022YCT-4.5SF	GaAsP/GaP	<u> </u>	water clear	4	15	90°	2 1 1 2 1 KA-3022-4.5SF
KA-3022SGCT-4.5SF	GaP	568	water clear	7	20	90°	
KA-3022ZGCT-4.5SF	InGaN	525	water clear	280	500	90°	0.25[.01] 2.5[.098] 5.00
KA-3022ZGCT-E-4.5SF	InGaN	525	water clear	380	800	90°	±0.15 0 1 1 1 1 2
KA-3022ZGCT-G-4.5SF	InGaN	525	water clear	480	900	90°	1 → 2 SR 2 SR 2
KA-3022QBCT-D-4.5SF	InGaN	470	water clear	50	150	90°	
KA-3022QBCT-F-4.5SF	InGaN	465	water clear	70	180	90°	4.5[.177] 0.65[.026] ±0.5 ±0.05
KA-3022QBCT-G-4.5SF	InGaN	465	water clear	110	250	90°	Units : mm(inch) Tolerance : ±0.25(0.01)

TOP-EMITTING PLCC SMD LED

PART NUMBER	MATERIAL	λ D			mcd) 0mA	VIEWING ANGLE	DIMENSION
		(nm)		MIN.	TYP.	2θ1/2	
KA-3528ECT	GaAsP/GaP	625	water clear	7	30	120°	3.5mm x 2.8mm
KA-3528SRCT	GaAlAs	6 40	water clear	50	150	120°	
KA-3528SURCKT	AlGaInP	6 30	water clear	70	350	120°	3.5(.138)±0.2
KA-3528SECKT	AlGaInP	6 01	water clear	110	400	120°	3.2(.126)±0.2
KA-3528YCT	GaAsP/GaP	<u> </u>	water clear	4	20	120°	Ø2.4(.094)
KA-3528SYCKT	AlGaInP	<u> </u>	water clear	70	200	120°	
KA-3528SGCT	GaP	568	water clear	10	25	120°	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
KA-3528MGCT	AlGaInP	570	water clear	50	150	120°	2 POLARITY MARK
KA-3528CGCKT	AlGaInP	570	water clear	36	100	120°	1 ← N → 2
KA-3528ZGCT	InGaN	525	water clear	380	600	120°	
KA-3528ZGCT-E	InGaN	525	water clear	480	900	120°	(6) 2 1 1 2 SR
KA-3528ZGCT-G	InGaN	525	water clear	650	1000	120°)
KA-3528QBCT-D	InGaN	470	water clear	50	150	120°	5 0.8(031) NOM. ±0.3
KA-3528QBCT-F	InGaN	465	water clear	110	280	120°	±0.3 Units : mm(inch)
KA-3528QBCT-G	InGaN	465	water clear	180	370	120°	Tolerance : ±0.25(0.01)

TOP-EMITTING CHIP SMD LED

PART NUMBER	MATERIAL	λD	LENS TYPE		mcd) 0mA	VIEWING ANGLE	DIMENSION
TART NOMBER	III/CI EICIAE	(nm)		MIN.	TYP.	201/2	J.III.Z.NO.IO.N
KPHHS-1005SURCK	AlGalnP	6 30	water clear	70	220	120°	1.0mm x 0.5mm x 0.5mm (0402)
KPHHS-1005SECK	AlGalnP	6 01	water clear	70	240	120°	1[.039] KPHHS-1005
KPHHS-1005SYCK	AlGalnP	- 590	water clear	50	150	120°	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
KPHHS-1005CGCK	AlGalnP	570	water clear	10	50	120°	5[.02]±0.
KPHHS-1005ZGC-V	InGaN	525	water clear	110	300	120°	0.4[.016] 0.4[.016]
KPHHS-1005QBC-D-V	InGaN	470	water clear	36	100	120°	Units : mm(inch) Tolerance : ±0.1(0.004)
KP-1608SURCK	AlGalnP	630	water clear	70	220	120°	1.6mm x 0.8mm x 1.1mm (0603)
KP-1608SECK	AlGalnP	6 01	water clear	70	240	120°	0.25(.01)
KP-1608SYCK	AlGaInP	- 590	water clear	50	150	120°	2 KP-1608
KP-1608MGC	AlGalnP	570	water clear	36	70	120°	ЖР-1608
KP-1608CGCK	AlGaInP	570	water clear	10	50	120°	1.6(.06 <u>3)</u> 1.2(.047) 8
KP-1608ZGC	InGaN	525	water clear	110	300	120°	1.6(.063) 1.2(.047) 1.1(.043) 1.1(.043) 1.2(.047) 1.2(.047) 1.2(.047)
KP-1608ZGC-E	InGaN	525	water clear	280	650	120°	1 0 2 2 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0
KP-1608ZGC-G	InGaN	525	water clear	380	700	120°	
KP-1608QBC-D	InGaN	470	water clear	36	100	120°	0.3(.012) 0.3(.012)
KP-1608QBC-F	InGaN	465	water clear	50	150	120°	1 2 2
KP-1608QBC-G	InGaN	465	water clear	70	180	120°	POLARITY MARK Units : mm(inch) Tolerance : 0.1(0.004)

^{1.}KP series custom-made is available upon request.

PART NUMBER	MATERIAL	λ.D (nm)	LENS TYPE	@2	ncd) 0mA	VIEWING ANGLE	
KPT-1608EC	GaAsP/GaP	625	water clear	MIN.	15 TYP.	2θ1/2 120°	1.6mm x 0.8mm x 0.75mm (0603 Super Thin)
KPT-1608SRC-PRV	GaAlAs	640	water clear	36	100	120°	1.0mm x 0.0mm x 0.75mm (0005 Super Tilm)
KPT-1608SURCK	AlGaInP	630	water clear	70	220	120°	
KPT-1608SECK	AlGaInP	601	water clear	70	240	120°	KPT-1608SRC-PRV
KPT-1608YC	GaAsP/GaP	588	water clear	2.6	8	120°	
KPT-1608SYCK	AlGaInP	590	water clear	50	150	120°	КРТ-1608
KPT-1608SGC	GaP	568	water clear	4	15	120°	1.6(.063)
KPT-1608MGC	AlGaInP	570	water clear	36	70	120°	1.2(.047) 5 1.1(.043) 8
KPT-1608CGCK	AlGaInP	570	water clear	10	50	120°	
KPT-1608ZGC	InGaN	525	water clear	110	300	120°	
KPT-1608ZGC-E	InGaN	525	water clear	280	650	120°	A •
KPT-1608ZGC-G	InGaN	525	water clear	380	700	120°	0.3(.012) 0.3(.012)
KPT-1608QBC-D	InGaN	470	water clear	36	100	120°	1 2
KPT-1608QBC-F	InGaN	465	water clear	50	150	120°	POLARITY MARK Units : mm(inch)
KPT-1608QBC-G	InGaN	465	water clear	70	180	120°	Tolerance: ±0.1(0.004)
KPTD-1608SURCK	AlGaInP	6 30	water clear	480	700	60°	1.6mm x 0.8mm x 0.95mm (Dome Lens)
KPTD-1608SECK	AlGalnP	6 01	water clear	480	800	60°	
KPTD-1608SYCK	AlGalnP	- 590	water clear	280	480	60°	1.6[.063]
KPTD-1608MGC	AlGalnP	570	water clear	110	250	60°	КРТD-1608
KPTD-1608CGCK	AlGalnP	570	water clear	70	180	60°	평변 [1 년]
KPTD-1608ZGC	InGaN	525	water clear	380	780	60°	1 0 2
KPTD-1608ZGC-E	InGaN	525	water clear	480	850	60°	'a'A A
KPTD-1608ZGC-G	InGaN	525	water clear	650	1200	60°	0.3[.012]
KPTD-1608QBC-D	InGaN	470	water clear	70	250	40°	1 2
KPTD-1608QBC-F	InGaN	465	water clear	110	270	40°	POLARITY MARK
KPTD-1608QBC-G	InGaN	465	water clear	180	300	40°	Units : mm(inch) Tolerance : ±0.15(0.006)
KP-2012EC	GaAsP/GaP	625	water clear	4	15	120°	2.0mm x 1.25mm x 1.1mm (0805)
KP-2012SRC-PRV	GaAlAs	6 40	water clear	36	100	120°	POLARITY KP-2012SRC-PRV
KP-2012SURCK	AlGaInP	6 30	water clear	70	220	120°	0.13(.005) POLARITY MARK
KP-2012SECK	AlGaInP	601	water clear	70	240	120°	2 0 KP-2012
KP-2012YC	GaAsP/GaP	588	water clear	2.6	8	120°	
KP-2012SYCK	AlGaInP	590	water clear	50	150	120°	
KP-2012SGC	GaP	568	water clear	4	15	120°	2(.079)
KP-2012MGC	AlGaInP	570	water clear	36	70	120°	1.3(.051) 1.2(.047) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
KP-2012CGCK	AlGaInP	570	water clear	10	50	120°	1.2(.047) 0 0 0 0 0 0 0 0 0
KP-2012ZGC	InGaN	525	water clear	110	300	120°	
KP-2012ZGC-E	InGaN	525	water clear	280	650	120°	* *
KP-2012ZGC-G	InGaN	525 470	water clear	380	700 100	120°	0.4(.016) 0.4(.016)
KP-2012QBC-D KP-2012QBC-F	InGaN InGaN	465	water clear	36 50	150	120°	2
KP-2012QBC-F	InGaN	465	water clear	70	180	120°	Units : mm(inch) Tolerance : ±0.1(0.004)
NF-2012QBU-U	IIIGaN	400	water clear	///	180	120	Tolerance : ±0.1(0.004)

^{1.}KP series custom-made is available upon request.

PART NUMBER	MATERIAL	λD	LENS TYPE	lv (n @20	ncd) 0mA	VIEWING ANGLE	DIMENSION
		(nm)		MIN.	TYP.	201/2	0.000004.0500000.075000
KPT-2012SURCK	AlGaInP	630	water clear	70	220	120°	2.0mm x 1.25mm x 0.75mm
KPT-2012SECK	AlGaInP	6 01	water clear	70	240	120°	0.13(.005) POLARITY MARK
KPT-2012SYCK	AlGaInP	- 590	water clear	50	150	120°	
KPT-2012MGC	AlGaInP	570	water clear	36	70	120°	00000000000000000000000000000000000000
KPT-2012CGCK	AlGaInP	570	water clear	10	50	120°	2(.079)
KPT-2012ZGC	InGaN	525	water clear	110	300	120°	1 3(051)
KPT-2012ZGC-E	InGaN	525	water clear	280	650	120°	$ \begin{array}{c c} \hline 1.2(.047) \\ \hline 1.2($
KPT-2012ZGC-G	InGaN	525	water clear	380	700	120°	76
KPT-2012QBC-D	InGaN	470	water clear	36	100	120°	0.4(.016) 0.4(.016)
KPT-2012QBC-F	InGaN	465	water clear	50	150	120°	
KPT-2012QBC-G	InGaN	465	water clear	70	180	120°	Units : mm(inch) Tolerance : ±0.1(0.004)
KPTC-2012SURCK	AlGaInP	630	water clear	70	220	120°	2.0mm x 1.25mm x 0.75mm
KPTC-2012SECK	AlGaInP	6 01	water clear	70	240	120°	2[.079]
KPTC-2012SYCK	AlGaInP	- 590	water clear	50	150	120°	0.13[.005]
KPTC-2012MGC	AlGaInP	570	water clear	36	70	120°	65 KPTC-2012
KPTC-2012CGCK	AlGaInP	570	water clear	10	50	120°]
KPTC-2012ZGC	InGaN	525	water clear	110	300	120°	1.3[.051]
KPTC-2012ZGC-E	InGaN	525	water clear	280	650	120°	1.3[.051] [O] 10 2 2
KPTC-2012ZGC-G	InGaN	525	water clear	380	700	120°	∤ •
KPTC-2012QBC-D	InGaN	470	water clear	36	100	120°	0.4[.016] 0.4[.016] POLARITY MARK
KPTC-2012QBC-F	InGaN	465	water clear	50	150	120°	1 2
KPTC-2012QBC-G	InGaN	465	water clear	70	180	120°	Units : mm(inch) Tolerance : ±0.1(0.004)
KPHCM-2012SURCK	AlGaInP	630	water clear	70	220	110°	2.0mm x 1.25mm x 0.4mm (0805 Super Thin)
KPHCM-2012SECK	AlGaInP	6 01	water clear	70	240	110°	2[.079]
KPHCM-2012SYCK	AlGaInP	<u> </u>	water clear	50	150	110°	0.13[.005] POLARITY MARK 6 7 7 7 KPHCM-2012
KPHCM-2012CGCK	AlGaInP	5 70	water clear	10	50	110°	КРНСМ-2012
KPHCM-2012ZGC	InGaN	525	water clear	110	300	110°	1.2[.047] 1.3[.051] 10 10 2
KPHCM-2012ZGC-E	InGaN	525	water clear	280	650	110°	1.2[.047]
KPHCM-2012ZGC-G	InGaN	525	water clear	380	700	110°	0.4[.016] 0.4[.016]
KPHCM-2012QBC-D	InGaN	470	water clear	36	100	110°	0.3[.012]
KPHCM-2012QBC-F	InGaN	465	water clear	50	150	110°	£ 60.1 2
KPHCM-2012QBC-G	InGaN	465	water clear	70	180	110°	1

NOTE: 1.KP series custom-made is available upon request.

PART NUMBER	MATERIAL	λD	LENS TYPE		ncd) OmA	VIEWING ANGLE	DIMENSION
		(nm)		MIN.	TYP.	2 01/2	
KP-23SURCK-F	AlGaInP	630	water clear	70	220	120°	3.0mm x 2.4mm x 1.05mm
KP-23SECK-F	AlGaInP	6 01	water clear	70	240	120°	ar
KP-23SYCK-F	AlGaInP	- 590	water clear	50	150	120°	3[.118] 1.05[.041] 1.7[.067]
KP-23MGC-F	AlGaInP	570	water clear	36	70	120°	(P-23-F
KP-23CGCK-F	AlGaInP	570	water clear	18	50	120°	1.051
KP-23ZGC-F	InGaN	525	water clear	110	380	120°	10 MAX
KP-23ZGC-E-F	InGaN	525	water clear	280	650	120°	1. ANODE
KP-23ZGC-G-F	InGaN	525	water clear	380	700	120°	2. N.C. 3 3. CATHODE
KP-23QBC-D-F	InGaN	470	water clear	36	100	120°	2 - 1 - 0.8
KP-23QBC-F-F	InGaN	465	water clear	50	120	120°	0.8 5 1 0.8 5 1 0.031
KP-23QBC-G-F	InGaN	465	water clear	70	180	120°	Units : mm(inch) Tolerance : ±0.2(0.008)
KPL-3015SURCK	AlGalnP	630	water clear	280	500	70°	3.0mm x 1.5mm x 1.4mm (1106)
KPL-3015SECK	AlGaInP	6 01	water clear	280	550	70°	0.18[.007]MIN. POLARITY MARK
KPL-3015SYCK	AlGaInP	- 590	water clear	110	300	70°	650 600 600 600 600 600 600 600 600 600
KPL-3015MGC	AlGaInP	570	water clear	70	140	70°	
KPL-3015CGCK	AlGaInP	570	water clear	50	100	70°	0.18[.007]MIN. 3[.118]
KPL-3015ZGC	InGaN	525	water clear	380	850	70°	2[.079]
KPL-3015ZGC-E	InGaN	525	water clear	650	1300	70°	1.5[.059]
KPL-3015ZGC-G	InGaN	525	water clear	900	1500	70°	20.35.0 20.35.0 20.35.0 3.05.0
KPL-3015QBC-D	InGaN	470	water clear	70	180	70°	1.6[.063]
KPL-3015QBC-F	InGaN	465	water clear	110	250	70°	2 Units : mm(inch)
KPL-3015QBC-G	InGaN	4 65	water clear	180	320	70°	Units : mm(inch) Tolerance : ±0.2(0.008)
KP-3216EC	GaAsP/GaP	625	water clear	4	15	120°	3.2mm x 1.6mm x 1.1mm (1206)
KP-3216SRC-PRV	GaAlAs	6 40	water clear	36	100	120°	
KP-3216SURCK	AlGaInP	630	water clear	70	220	120°	POLARITY MARK
KP-3216SECK	AlGaInP	6 01	water clear	70	240	120°	KP-3216SRC-PRV
KP-3216YC	GaAsP/GaP	588	water clear	2.6	8	120°	KP-3216
KP-3216SYCK	AlGaInP	- 590	water clear	50	150	120°	
KP-3216SGC	GaP	568	water clear	4	15	120°	POLARITY MARK
KP-3216MGC	AlGaInP	570	water clear	36	70	120°	2(.079)
KP-3216CGCK	AlGaInP	570	water clear	10	50	120°	1.9(.075)
KP-3216ZGC	InGaN	525	water clear	110	300	120°	0.50 0.00
KP-3216ZGC-E	InGaN	525	water clear	280	650	120°	
KP-3216ZGC-G	InGaN	525	water clear	380	700	120°	0.5(.02)
KP-3216QBC-D	InGaN	470	water clear	36	100	120°	
KP-3216QBC-F	InGaN	465	water clear	50	150	120°	1 2
KP-3216QBC-G	InGaN	465	water clear	70	180	120°	Units : mm(inch) Tolerance : ±0.2(0.008)

^{1.}KP series custom-made is available upon request.

PART NUMBER	MATERIAL	λD (nm)	LENS TYPE		0mÁ	VIEWING ANGLE	DIMENSION
LADT 00400 LIDOK	AIQ da B			MIN.	TYP.	201/2	3.2mm x 1.6mm x 0.75mm (1206 Super Thin)
KPT-3216SURCK	AlGaInP	630	water clear	70	220	120°	//>
KPT-3216SECK	AlGaInP	601	water clear	70	240	120°	POLARITY MARK
KPT-3216SYCK	AlGaInP	590	water clear	50	150	120°	KPT-3216
KPT-3216MGC	AlGaInP	570	water clear	36	70	120°	
KPT-3216CGCK	AlGaInP	570	water clear	10	50	120°	3.2(.126) 2(.079)
KPT-3216ZGC	InGaN	525	water clear	110	300	120°	1.9(.075)
KPT-3216ZGC-E	InGaN	525	water clear	280	650	120°	0.75(0.03)
KPT-3216ZGC-G	InGaN	525	water clear	380	700	120°	o† ∮° 0.5(.02)
KPT-3216QBC-D	InGaN	470	water clear	36	100	120°	
KPT-3216QBC-F	InGaN	465	water clear	50	150	120°	1 2
KPT-3216QBC-G	InGaN	465	water clear	70	180	120°	Units : mm(inch) Tolerance : ±0.2(0.008)
KPC-3216SURCK	AlGaInP	630	water clear	70	220	120°	3.2mm x 1.6mm x 1.1mm (1206)
KPC-3216SECK	AlGaInP	6 01	water clear	70	240	120°	LED CHIP POLARITY MARK
KPC-3216SYCK	AlGaInP	<u> </u>	water clear	50	150	120°	
KPC-3216MGC	AlGaInP	570	water clear	36	70	120°	KPC-3216
KPC-3216CGCK	AlGaInP	570	water clear	10	50	120°	3.2[.126]
KPC-3216ZGC	InGaN	525	water clear	110	300	120°	2[.079]
KPC-3216ZGC-E	InGaN	525	water clear	280	650	120°	1.9[.075] 70 1.9[.075] 70 10 10 10 10 10 10 10 10 10 10 10 10 10
KPC-3216ZGC-G	InGaN	525	water clear	380	700	120°	
KPC-3216QBC-D	InGaN	470	water clear	36	100	120°	2.2[.087]
KPC-3216QBC-F	InGaN	465	water clear	50	150	120°	1
KPC-3216QBC-G	InGaN	465	water clear	70	180	120°	Units : mm(inch) Tolerance : ±0.2(0.008)
KPTL-3216SURCK	AlGaInP	630	water clear	280	550	70°	3.2mm x 1.6mm x 1.1mm (1206)
KPTL-3216SECK	AlGaInP	6 01	water clear	280	600	70°	3.2[.126] POLARITY MARK
KPTL-3216SYCK	AlGalnP	<u> </u>	water clear	110	350	70°	_ ' \$1.0[.063] '
KPTL-3216CGCK	AlGalnP	570	water clear	70	200	70°	KPTL-3216
KPTL-3216ZGC	InGaN	525	water clear	480	1100	70°	#1.1[.043] R0.5[R0.02]
KPTL-3216ZGC-E	InGaN	525	water clear	650	1600	70°	R0.5[R0.02]
KPTL-3216ZGC-G	InGaN	525	water clear	900	1800	70°	-0.8[.031]
KPTL-3216QBC-D	InGaN	470	water clear	110	300	70°	POLARITY MARK
KPTL-3216QBC-F	InGaN	465	water clear	180	360	70°	
KPTL-3216QBC-G	InGaN	465	water clear	280	400	70°	Units : mm(inch) Tolerance : 0.1(0.004)

NOTE: 1.KP series custom-made is available upon request.

PART NUMBER	MATERIAL	λD (nm)	LENS TYPE	@2	ncd) DmA	VIEWING ANGLE	
KPTD-3216SURCK	AlGaInP	630	water clear	MIN. 480	TYP. 1500	2θ1/2 50°	3.2mm x 1.6mm x 1.8mm (1206 Dome Lens)
KPTD-3216SECK	AlGaInP	601	water clear	650	1600	50°	
KPTD-3216SYCK	AlGalnP	590	water clear	380	900	50°	3.2(.126) 0.6(.024)
KPTD-3216MGC	AlGainP	570	water clear	110	450	50°	POLARITY KPTD-3216
KPTD-3216CGCK	AlGainP	570	water clear	110	300	50°	w MARK
KPTD-3216ZGC	InGaN	525	water clear	900	2000	50°	1.6(.063)
KPTD-3216ZGC-E	InGaN	525	water clear	2200	3500	50°	0.75(.029)
KPTD-3216ZGC-G	InGaN	525	water clear	2500	4000	50°	10-12
KPTD-3216QBC-D	InGaN	470		280	500	40°	0.5(.02)
KPTD-3216QBC-F	InGaN	465	water clear	380	850	40°	POLARITY MARK
KPTD-3216QBC-F	InGaN	465	water clear	480	900	40°	Units : mm(inch)
KPD-3224SURCK	AlGaInP	630	water clear	650	2500	20°	Tolerance : ±0.2(0.008) 3.2mm x 2.4mm (Dome Lens)
KPD-3224SECK	AlGainP	601	water clear	900	2600	20°	POLARITY MARK
KPD-3224SYCK		590		480	1400	20°	
	AlGainP		water clear			20°	1 20 0 0 KPD-3224
KPD-3224MGC	AlGainP	570	water clear	380	700		[.071] [2.2[.087] 5. 3.2[.126] 6. 2.1[.083] 9.C.BOARD
KPD-3224CGCK	AlGaInP	570	water clear	280	700	20°	2.1[.083] P.C.BOARD
KPD-3224ZGC	InGaN	525	water clear	1200	2400	20°	1.8[.071]
KPD-3224ZGC-E	InGaN	525	water clear	2800	5000	20°	10—10—2 2
KPD-3224ZGC-G	InGaN	525	water clear	3300	5300	20°	
KPD-3224QBC-D	InGaN	470	water clear	380	900	20°	1 2 1 5 8
KPD-3224QBC-F	InGaN	465	water clear	480	1200	20°	2.1[.083] 0.55[.022]
KPD-3224QBC-G	InGaN	465	water clear	650	1400	20°	Tolerance: ±0.1(0.004)
KPED-3528SURCK	AlGaInP	630	water clear	380	800	40°	3.5mm x 2.8mm x 3.2mm (Dome Lens)
KPED-3528SECK	AlGaInP	601	water clear	480	900	40°	2.8(.11)
KPED-3528SYCK	AlGaInP	590	water clear	180	500	40°	POLARITY MARK KPED-3528
KPED-3528MGC	AlGaInP	570	water clear	110	250	40°	POLARITY MARK KPED-3528
KPED-3528CGCK	AlGaInP	570	water clear	70	200	40°	R1.3(.051)
KPED-3528ZGC	InGaN	525	water clear	480	1400	40°	36 25
KPED-3528ZGC-E	InGaN	525	water clear	1800	2700	40°	1.8(.071)
KPED-3528ZGC-G	InGaN	525	water clear	2200	3000	40°	0.8(.031) 0.8(.031)
KPED-3528QBC-D	InGaN	470	water clear	180	500	40°	
KPED-3528QBC-F	InGaN	465	water clear	380	700	40°	1 }
KPED-3528QBC-G	InGaN	465	water clear	480	800	40°	Units : mm(inch) Tolerance : ±0.2(0.008)

^{1.}KP series custom-made is available upon request.

PART NUMBER	MATERIAL	λD	LENS TYPE		ncd) 0mA	VIEWING ANGLE	DIMENSION
TART ROMBER	III/AL ETGIAE	(nm)	LENO III L	MIN.	TYP.	2θ1/2	
KPED-3820SURCK	AlGaInP	6 30	water clear	280	700	60°(H) 35°(V)	3.8mm x 2.0mm x 3.2mm (Dome Lens)
KPED-3820SECK	AlGaInP	6 01	water clear	280	800	60°(H) 35°(V)	1000 1000 1000 1000 1000 1000 1000 100
KPED-3820SYCK	AlGaInP	- 590	water clear	110	450	60°(H) 35°(V)	KPED-3820
KPED-3820MGC	AlGaInP	570	water clear	110	250	60°(H) 35°(V)	3.2[0.126]MIN 7 1 0 2
KPED-3820CGCK	AlGaInP	570	water clear	70	170	60°(H) 35°(V)	
KPED-3820ZGC	InGaN	525	water clear	480	1200	60°(H) 35°(V)	7.2 [0.12e] 1.0 [0.03] 1.0 [0.03]
KPED-3820ZGC-E	InGaN	525	water clear	1500	2500	60°(H) 35°(V)	
KPED-3820ZGC-G	InGaN	525	water clear	1800	2700	60°(H) 35°(V)	3.8[0.150]
KPED-3820QBC-D	InGaN	470	water clear	110	300	60°(H) 35°(V)	2
KPED-3820QBC-F	InGaN	465	water clear	280	450	60°(H) 35°(V)	
KPED-3820QBC-G	InGaN	465	water clear	380	650	60°(H) 35°(V)	1[0.039] 1[0.039] Units : mm(inch) POLARITY MARK Tolerance : ±0.2(0.008)

RIGHT ANGLE SMD LED

PART NUMBER	MATERIAL	λD	LENS TYPE		ncd) 0mA	VIEWING ANGLE	DIMENSION
		(nm)		MIN.	TYP.	2 θ 1/2	
KPA-1606SURCK	AlGaInP	630	water clear	110	250	110°	1.6mm x 0.6mm x 1.2mm (0602 Right Angle)
KPA-1606SECK	AlGaInP	6 01	water clear	110	300	110°	0.1(,0039)
KPA-1606SYCK	AlGaInP	- 590	water clear	50	150	110°	4-4-1
KPA-1606CGCK	AlGaInP	570	water clear	18	60	110°	1.6(.063) 2 KPA-1606
KPA-1606ZGC	InGaN	525	water clear	110	350	110°	1.2(.047) 1.1(.043)
KPA-1606ZGC-E	InGaN	525	water clear	280	600	110°	47) (44)
KPA-1606ZGC-G	InGaN	525	water clear	380	650	110°	0.6(.024)
KPA-1606QBC-D	InGaN	470	water clear	36	90	110°	0.25(.01) 0.25(.01)
KPA-1606QBC-F	InGaN	465	water clear	50	120	110°	90.90
KPA-1606QBC-G	InGaN	465	water clear	70	150	110°	POLARITY MARK Units : mm(inch) Tolerance : ±0.1(0.004)
KPA-2106SURCK	AlGaInP	630	water clear	110	250	120°	2.1mm x 0.6mm x 1.0mm (0802 Right Angle)
KPA-2106SECK	AlGaInP	6 01	water clear	110	300	120°	2.1[.083]
KPA-2106SYCK	AlGaInP	- 590	water clear	50	150	120°	0.2[.0079]
KPA-2106MGC	AlGaInP	570	water clear	36	80	120°	1
KPA-2106CGCK	AlGaInP	570	water clear	18	60	120°	1.7[.067]
KPA-2106ZGC	InGaN	525	water clear	110	350	120°	
KPA-2106ZGC-E	InGaN	525	water clear	280	600	120°	Ro.6[.024]
KPA-2106ZGC-G	InGaN	525	water clear	380	650	120°	· ·
KPA-2106QBC-D	InGaN	470	water clear	36	90	120°	0.3[.012] 0.3[.012]
KPA-2106QBC-F	InGaN	465	water clear	50	120	120°	POLARITY MARK Units : mm(inch)
KPA-2106QBC-G	InGaN	465	water clear	70	150	120°	Tolerance: ±0.1(0.004)

NOTE: 1.KP series custom-made is available upon request.

RIGHT ANGLE SMD LED

PART NUMBER	MATERIAL	λD	LENS TYPE		ncd) DmA	VIEWING ANGLE	DIMENSION
PART NUMBER	WATERIAL	(nm)	LENS ITPE	MIN.	TYP.	201/2	DIMENSION
KPJA-2107SURCK	AlGalnP	6 30	water clear	110	250	120°	2.1mm x 0.7mm x 1.3mm (0802 Right Angle)
KPJA-2107SECK	AlGalnP	6 01	water clear	110	300	120°	2 0.35[0.014]
KPJA-2107SYCK	AlGaInP	- 590	water clear	50	150	120°	T 12.1010.08311
KPJA-2107MGC	AlGaInP	570	water clear	36	80	120°	POLARITY MARK KPJA-2107
KPJA-2107CGCK	AlGaInP	570	water clear	18	60	120°	R0.50[0.02] 1.4[0.055]
KPJA-2107ZGC	InGaN	525	water clear	110	350	120°	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0
KPJA-2107ZGC-E	InGaN	525	water clear	280	600	120°	001-100 001-100 001-100-100-100-100-100-
KPJA-2107ZGC-G	InGaN	525	water clear	380	650	120°	
KPJA-2107QBC-D	InGaN	470	water clear	36	90	120°	0.66[0.026] 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
KPJA-2107QBC-F	InGaN	465	water clear	50	120	120°	99 H
KPJA-2107QBC-G	InGaN	465	water clear	70	150	120°	POLARITY MARK / L 0.72[0.028] Units : mm(inch) Tolerance : 0.15(0.006)
KPA-3010SURCK	AlGalnP	6 30	water clear	110	250	120°	3.0mm x 1.0mm x 2.0mm (1104 Right Angle)
KPA-3010SECK	AlGaInP	6 01	water clear	110	300	120°	1 2
KPA-3010SYCK	AlGaInP	<u> </u>	water clear	50	150	120°	
KPA-3010MGC	AlGaInP	570	water clear	36	80	120°	0.3(.012) 0.3(.012) KPA-3010
KPA-3010CGCK	AlGaInP	570	water clear	18	60	120°	2(.079)
KPA-3010ZGC	InGaN	525	water clear	110	350	120°	1
KPA-3010ZGC-E	InGaN	525	water clear	280	600	120°	(60)(07)
KPA-3010ZGC-G	InGaN	525	water clear	380	650	120°	0.25(.01) 0.25(.01)
KPA-3010QBC-D	InGaN	470	water clear	36	90	120°	
KPA-3010QBC-F	InGaN	465	water clear	50	120	120°	POLARITY MARK
KPA-3010QBC-G	InGaN	465	water clear	70	150	120°	Units : mm(inch) Tolerance : ±0.15(0.006)
KPA-3210SURCK	AlGaInP	6 30	water clear	110	250	120°	3.2mm x 1.0mm x 1.5mm (1304 Right Angle)
KPA-3210SECK	AlGaInP	6 01	water clear	110	300	120°	3.2[.126]
KPA-3210SYCK	AlGaInP	<u> </u>	water clear	50	150	120°	0.5[0.02]
KPA-3210MGC	AlGaInP	570	water clear	36	80	120°	R0.25 [R0.01]
KPA-3210CGCK	AlGaInP	570	water clear	18	60	120°	POLARITY MARK 2[0.079]
KPA-3210ZGC	InGaN	525	water clear	110	350	120°	 • • •
KPA-3210ZGC-E	InGaN	525	water clear	280	600	120°	
KPA-3210ZGC-G	InGaN	525	water clear	380	650	120°	0.8[0.031]
KPA-3210QBC-D	InGaN	470	water clear	36	90	120°	0.6[0.024] — POLARITY MARK
KPA-3210QBC-F	InGaN	465	water clear	50	120	120°	1 2
KPA-3210QBC-G	InGaN	465	water clear	70	150	120°	PAD FOR FLUXED ONLY Units : mm(inch) Tolerance : ±0.1(0.004)

^{1.}KP series custom-made is available upon request.

RIGHT ANGLE SMD LED

PART NUMBER	MATERIAL	λD	LENS TYPE		ncd) 0mA	VIEWING ANGLE	DIMENSION
		(nm)		MIN.	TYP.	201/2	
KA-2810ASURSK	AlGalnP	630	water clear	70	200	110°	2.8mm x 0.8mm Right Angle
KA-2810ASESK	AlGaInP	6 01	water clear	110	270	110°	
KA-2810ASYSK	AlGaInP	<u> </u>	water clear	110	200	110°	1 0—K1—0 2 KA-2810A
KA-2810ACGSK	AlGaInP	570	water clear	36	70	110°	
KA-2810AZGS	InGaN	525	water clear	380	750	110°	2.8[0.11] 2.5[.098] 1.2[.047] 0.3[.031]
KA-2810AZGS-E	InGaN	525	water clear	650	1300	110°	0.8[.031]
KA-2810AZGS-G	InGaN	525	water clear	900	1500	110°	8 1
KA-2810AQBS-D	InGaN	470	water clear	50	120	110°	0.73[.029] 0.63[.025]
KA-2810AQBS-F	InGaN	465	water clear	110	250	110°	8 1
KA-2810AQBS-G	InGaN	465	water clear	180	350	110°	Units : mm(inch) Tolerance : ±0.1(0.004)
KA-4008SURSK	AlGaInP	6 30	water clear	110	300	120°	4.0mm x 0.8mm Right Angle
KA-4008SESK	AlGaInP	6 01	water clear	110	350	120°	
KA-4008SYSK	AlGaInP	- 590	water clear	70	250	120°	2 1 CKA-4008
KA-4008ZGS	InGaN	525	water clear	280	600	120°	757 4[0.157] 1.4[0.055]
KA-4008ZGS-E	InGaN	525	water clear	650	1200	120°	2.2[.087] - 0.8[.031]
KA-4008ZGS-G	InGaN	525	water clear	900	1400	120°	85.05.00
KA-4008QBS-D	InGaN	470	water clear	50	100	120°	POLARITY
KA-4008QBS-F	InGaN	465	water clear	110	250	120°	POLARITY
KA-4008QBS-G	InGaN	465	water clear	180	300	120°	Units : mm(inch) Tolerance : ±0.1(0.004)
KA-4040SURCKT	AlGaInP	6 30	water clear	70	250	90°	4.0mm x 4.0mm Right Angle
KA-4040SECKT	AlGaInP	6 01	water clear	110	400	90°	© S
KA-4040SYCKT	AlGalnP	- 590	water clear	70	250	90°	4[.157]
KA-4040MGCT	AlGaInP	570	water clear	50	100	90°	<u>'1.' , '.2' '!</u>
KA-4040CGCKT	AlGaInP	570	water clear	36	70	90°	POLARITY R1 15 15 15 15 15 15 15 15 15 15 15 15 15
KA-4040ZGCT	InGaN	525	water clear	380	600	90°	10————————————————————————————————————
KA-4040ZGCT-E	InGaN	525	water clear	480	1300	90°	[1.15] [1.15]
KA-4040ZGCT-G	InGaN	525	water clear	650	1500	90°	▎ [╬] ╵ ╒╸ ┆╼┩ ╸ ╵ ┃
KA-4040QBCT-D	InGaN	470	water clear	70	150	90°	CATHODE 1[.039] 2.85[.112]
KA-4040QBCT-F	InGaN	465	water clear	110	220	90°	2.54[.1]SPACING Units : mm(inch)
KA-4040QBCT-G	InGaN	465	water clear	180	300	90°	Units : mm(inch) Tolerance : ±0.25(0.01)

PART NUMBER	MATERIAL	λD (nm)	LENS TYPE		ncd) DmA	VIEWING ANGLE	DIMENSION
		(11111)		MIN.	TYP.	2θ1/2	
KPTB-1612ESGC	GaAsP/GaP	625	water clear	4	15	- 120°	1.6mm x 1.25mm x 0.65mm (0605 Bi-Color)
10122300	GaP	568	water cicar	4	15	120	1.6(.063) LED CHIP
KPTB-1612SURKCGKC	AlGaInP	630	water clear	70	220	120°	(6) (2) (2) (4) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7
IN TB-101230NRCORC	AlGaInP	570	water crear	18	50	120	^
VDTD 46436UDVODDO	AlGaInP	6 30	water aleer	70	220	120°	POLARITY MARK
KPTB-1612SURKQBDC	InGaN	470	water clear	36	90	120	20-1-1
LADED 10100/1/201/2	AlGaInP	590		50	150	1000	ṓ
KPTB-1612SYKCGKC	AlGalnP	5 70	water clear	18	50	120°	0.9(.035) 0.9(.035) 20-10-1 SEK
WATE 40400PROFWO	InGaN	470		36	90	1000	© \(\frac{\psi}{2} \) \(\frac{4}{2} \) \(\frac{3}{2} \) \(\frac{\psi \text{V}}{1} \) \(\frac{3}{2} \) \(\frac{\psi \text{V}}{1} \) \(\frac{3}{2} \) \(\frac{\psi \text{V}}{1} \) \(\frac{3}{2} \) \(\frac{1}{2} \) \(\fr
KPTB-1612QBDSEKC	AlGaInP	6 01	water clear	70	240	- 120°	POLARITY MARK 4 - 3 Units : mm(inch) Tolerance : ±0.2(0.008)
	GaAsP/GaP	625		4	15		1.6mm x 1.5mm x 0.7mm (0606 Bi-Color)
KPTB-1615ESGC	GaP	568	water clear	4	15	120°	1.6[.063] LED CHIP
	AlGaInP	630		70	220		
KPTB-1615SURKSGC	GaP	568	water clear	4	15	- 120°	650.]6.0 650.]6
	AlGaInP	630		70	220		
KPTB-1615SURKCGKC	AlGaInP	570	water clear	18	50	- 120°	POLARITY 2 E 1 SC SC SC
LADED 101501D100DD	AlGaInP	630		70	220	4000	1.2[.047] 4 - K - 3
KPTB-1615SURKQBDC	InGaN	470	water clear	36	90	120°	
VDTD 4045/000	GaAsP/GaP	<u> </u>		2.6	8	4000	SURK 2 KG 3 80 50 50 50 50 50 50 50 50 50 50 50 50 50
KPTB-1615YSGC	GaP	568	water clear	4	15	120°	2 SURK 2 → K1 → 1 4 CGK 3
KDTD 40450VIXOOKO	AlGaInP	- 590		50	150	4000	0.35[.014] 0.35[.014] CGK 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
KPTB-1615SYKCGKC	AlGaInP	570	water clear	18	50	120°	3 SURK 2
WDTD 404500N0	GaP	568		4	15	4000	4.QB-D _{.3}
KPTB-1615SGNC	GaAsP/GaP	6 10	water clear	4	15	120°	Units : mm(inch) Tolerance : ±0.2(0.008)
	AlGaInP	6 30		70	220		2.0mm x 1.25mm x 0.45mm (Bi-Color)
KPHBM-2012SURKCGKC	AlGaInP	5 70	water clear	18	50	120°	2[.079]
	AlGalnP	5 70		18	50		66 2 1 1 КРНВМ-2012
KPHBM-2012CGKSEKC	AlGaInP	6 01	water clear	110	250	120°	POLARITY POLARITY
KPHBM-2012QBDSURKC	InGaN	470	· water clear	36	90	- 120°	1.3[.051]
3.222300	AlGaInP	6 30	35. 3.30	70	220		0.5[.02] 0.5[.02] CGK QB−D 1 2 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
KPHBM-2012QBDCGKC	InGaN	4 70	water clear	36	90	- 120°	3 SEK 4 3 CGK 4
	AlGaInP	5 70		18	50		POLARITY MARK Units: mm(inch) Tolerance: ±0.1(0.004)

^{1.}KP series custom-made is available upon request.

PART NUMBER	MATERIAL	λD	LENS TYPE	lv (r @2	ncd) DmA	VIEWING ANGLE	DIMENSION
		(nm)		MIN.	TYP.	201/2	
KPBVA-3010ESGC	GaAsP/GaP	625	water clear	7	15	140°	3.0mm x 1.0mm x 2.0mm (1104 Right Angle, Bi-Color)
	GaP	568		7	15		3[.118]
KPBVA-3010SRSGC-PRV	GaAlAs	640	water clear	50	140	140°	194 1 100 2 3 50 2 1 1 1 1 1 1 1 1 1
	GaP	568		7	20		2√∏ 3 → K 1 KPBVA-3010
KPBVA-3010SURKSGC	AlGaInP	630	water clear	110	300	140°	E
	GaP	568		7	15		2 <u>1.079</u> QB-D 3 QB-D 3 QB-D 1
KPBVA-3010SURKMGKC	AlGaInP	630	water clear	110	300	140°	2 SURK SURK
	AlGaInP	570		36	80		SR 3 SG 3 FG 2 FG 1
KPBVA-3010SURKQBDC	AlGaInP	630	water clear	110	300	140°	
	InGaN	470		36	90		0.6[.024] 0.6[.024] SURK CGK 3
KPBVA-3010YSGC	GaAsP/GaP	588	water clear	2.6	8	140°	3-MGK 2-K1-1
	GaP	568		7	15		3 2 1 SURK
KPBVA-3010SYKCGKC	AlGaInP	590	water clear	50	150	140°	0.9[.035] Units : mm(inch) POLARITY MARK
	AlGaInP	570		18	50		Tolerance . ±0.15(0.006)
VM 92500W	GaAsP/GaP	625	white	4	15	4400	2.1(.083) 1.05(.041)
KM-23ESGW	GaP	568	diffused	4	15	140°	1.05(.041) 1.05(.
KM-23ESGC	GaAsP/GaP	625		4	15	4400	3 10 MAX 0.7(.028) 0.4(.016) ±0.15 3(.118) +0 -0.2 1.05(.041)±0.15
NW-23E3GC	GaP	568	· water clear	4	15	- 140°	S6 Y E 3 Units : mm(inch) Tolerance : ±0.25(0.01)
WD 995000	GaAsP/GaP	625		7	20	4000	3.0mm x 2.4mm x 1.05mm 3[.118] 1.7[.067] 0.5[.041] 0.5[.02]
KP-23ESGC	GaP	5 68	water clear	7	20	120°	KP-23xxx
	GaAsP/GaP	588		2.6	8		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
KP-23YSGC	GaP	568	water clear	7	20	120°	0.8[.031] Units : mm(inch) Tolerance : ±0.2(0.008)

NOTE: 1.KP series custom-made is available upon request.

DADT NUMBER	MATERIAL	λD	LENC TYPE			VIEWING ANGLE	DIMENSION
PART NUMBER	MATERIAL	(nm)	LENS TYPE	MIN.	TYP.	201/2	DIMENSION
L/DD 00055000	GaAsP/GaP	625		4	15	4000	3.0mm x 2.5mm x 1.1mm (1109 Bi-Color)
KPB-3025ESGC	GaP	568	water clear	4	15	- 120°	3(.118)
KDD 2005EVO	GaAsP/GaP	625		4	15	4000	2 51 1 521
KPB-3025EYC	GaAsP/GaP	<u> </u>	water clear	2.6	8	120°	POLARITY POLARITY KPB-3025
KPB-3025SRSGC-PRV	GaAlAs	6 40	water clear	36	100	120°	POLARITY KPB-3025
NFB-30233N3GC-FNV	GaP	568	water clear	4	15	120	4 E 1 1 E 3 N 1
KPB-3025SRCGKC-PRV	GaAlAs	6 40	water clear	36	100	120°	15(050) SG SG SG 7
N B 00200NOONO 1 NV	AlGaInP	570	water cicar	18	50	120	
KPB-3025NSGC	GaAsP/GaP	610	water clear	4	15	120°	13(10) 1
	GaP	568		4	15		O F SR Y
KPB-3025SURKCGKC	AlGaInP	630	water clear	70	220	120°	1(.039) 1 2 SR 2 Y 1 SG SG SG
	AlGaInP	570		18	50		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
KPB-3025YSGC	GaAsP/GaP	588	water clear	2.6	8	120°	3 (3 (3 (3 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4
	GaP	568		4	15		© 2
KPB-3025QBDSYKC	InGaN	470	water clear	36	80	120°	Units : mm(inch)
	AlGaInP	590		50	200		Tolerance : ±0.2(0.008)
KPBL-3025ESGC	GaAsP/GaP	625	water clear	7	20	100°	3.0mm x 2.5mm x 1.4mm (1109 Bi-Color)
	GaP	568		7	20		3(.118)
KPBL-3025EYC	GaAsP/GaP	625	water clear	7	20	100°	2 1 8 8
N BE 0023E10	GaAsP/GaP	<u> </u>	water cicar	4	15	100	POLARITY WARK KPBL-3025
.,	GaAlAs	6 40		36	100		`````` 4 EA I/ T ES3'
KPBL-3025SRSGC-PRV	GaP	568	water clear	7	20	100°	LED CHIP 2(.079) 2
	GaAsP/GaP	6 10		7	20		.5(.U59) R0.45(.018)
KPBL-3025NSGC	GaP	568	water clear	7	20	100°	1.1(.043) 4 CGK 2 E 4 CGK 3 2 E 1
	AlGaInP	630		180	500		2-K-1 3-1 3-1 3-1 3-1 3-1 3-1 3-1 3
KPBL-3025SURKCGKC	AlGaInP	570	water clear	50	150	100°	│
	GaAsP/GaP	588		4	150		1 1(070) 1 00
KPBL-3025YSGC			water clear			100°	(1.039) 4. Ki - 3 QB-D 2- Ki - 1 SYK 3 (2.00) 2 - Ki - 1 SYK 3 (2.00) 2 - Ki - 1 SYK 3 - Ki - 3 SYK 3 - SYK 3 - S
	GaP	568		7	20		
KPBL-3025QBDSYKC	InGaN	470	water clear	50	180	100°	SG 4—14—3 Units : mm(inch)
	AlGaInP	<u> </u>		70	150		1(.039) Tolerance : ±0.2(0.008)
	GaAsP/GaP	625		18	60		3.2mm x 2.4mm x 2.4mm (Dome Lens)
KPBD-3224ESGC	0.0	- 500	water clear	40	00	20°	POLARITY MARK
	GaP	568		10	60		2 5 5 C
	AlGaInP	630		380	1200		
KPBD-3224SURKSGC			water clear			20°	Ø1.8(.071) ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ KPBD-3224
	GaP	568		10	60		3.2(.126)±0.2 E 2.4(.007) 2.4(.007)
	AlGaInP	630		380	1200		2.1(.083) SG 1.9(.075) 4∘-⊀3 γ
KPBD-3224SURKCGKC			water clear			20°	1.8(.071) 2°-K1-0 1
	AlGaInP	570		110	300		
	GaAsP/GaP	588		4	15		(6)
KPBD-3224YSGC			water clear			20°	
	GaP	568		10	60		F → F · · · · · · · · · · · · · · · · ·
	AlGaInP	590		110	500		SURK 20-1 40-1 3 1
KPBD-3224SYKCGKC			water clear			20°	2
	AlGaInP	570		110	300		0.6(.024) Units: mm(incn) Tolerance: ±0.1(0.004)

^{1.}KP series custom-made is available upon request.

PART NUMBER	MATERIAL	λD	LENS TYPE		ncd) 0mA	VIEWING ANGLE	DIMENSION			
		(nm)		MIN.	TYP.	2 θ1/2				
KA-2735ESGCT	GaAsP/GaP	625	- water clear	7	30	- 120°	2.7mm x 3.5mm (Bi-Color) 4.5[0.177]±0.5 2.7[0.106] POLARITY 3 SG			
NA-2739E3GC1	GaP	568	water stear	7	30	120	MARK 50 1			
	AlGaInP	6 30		70	200		Ø2.3[0.091] O SURK Ø2.3[0.091] 1			
KA-2735SURKMGCT	AlGalnP	5 70	water clear	50	90	- 120°	Units : mm(inch) Tolerance : ±0.25(0.01)			
KAA-3528SURKSYKCT	AlGalnP	6 30	water clear	110	350	- 120°	3.5mm x 2.8mm KAA—3528SURKSYKCT			
IVA-332330KKOTKOT	AlGalnP	- 590	water clear	70	250	120	KAA-3528SURKCGKCT 3.5(.138)±0.2 3.2(.126)±0.2			
KAA-3528SURKCGKCT	AlGalnP	630	water clear	110	350	- 120°	#2.4(.094) #5 KAA-3528SURKZGQBDCT			
NAA-33263URRUGRUT	AlGaInP	570	water clear	36	100	120	3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			
	AlGalnP	6 30		110	350		2. (000.9) (1.0) (0.00.9) (1.0) (0.00.9) (1.0) (0.00.9) (1.0) (0.00.9) (1.0) (0.00.9) (1.0) (0.00.9) (
KAA-3528SURKZGQBDCT	InGaN	525	water clear	380	600	120°	0.1(.004) KAA-3528SURKZGQBDCT 0.8(.031) NOM. ±0.3			
	InGaN	470		36	80		SURK SURK 2 ← D→ 1 2 ← D→ 1 Units : mm(inch) Tolerance : ±0.25(0.01)			

PART NUMBER	MATERIAL	λD	LENS TYPE		ncd) \ *50mA	VIEWING ANGLE	DIMENSION
		(nm)		MIN.	TYP.	2 θ1/2	
	InGaN	470		110	250		5.0mm x 6.0 mm x 2.3mm 5.7[0.224]
KAAF-5060QBDSURKZGCT	AlGaInP	630	water clear	*180	*350	100°	5[0.197] 600 4
	InGaN	525		280	650		4 3 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	InGaN	4 65		180	350		POLARITY MARK 2.3[0.091] POLARITY MARK 2G 2G 3 4 2G 3 5 3 4 2G 3 5 3 4 2G 3 5 3 5 3 5 3 5 3 5 5 5 5 5 5 5 5 5 5
KAAF-5060QBFSEEZGCT	AlGaInP	621	water clear	*650	*1000	100°	4 3 4 3 3 SE-E SURK 5 4 2 5 4 2 5 6 1 6 1 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1
	InGaN	525		280	650		Units : mm(inch) Tolerance : ±0.25(0.01)

SUBMINIATURE SMD LED

PART NUMBER	MATERIAL	λD	LENS TYPE		ncd) DmA	VIEWING ANGLE	DIMENSION
		(nm)		MIN.	TYP.	201/2	
KM2520SURCK03	AlGaInP	630	water clear	900	2400	20°	Subminiature Solid State Lamps Gull Wing Lead
KM2520SECK03	AlGaInP	6 01	water clear	900	2500	20°	
KM2520SYCK03	AlGaInP	- 590	water clear	900	2200	20°	2.5(.098)±0.1
KM2520MGC03	AlGaInP	570	water clear	380	900	20°	1.1(.043) #1.9(.075) 10 D 02
KM2520CGCK03	AlGaInP	570	water clear	280	700	20°	(9,00) 10,000
KM2520ZGC03	InGaN	525	water clear	1200	2500	20°	
KM2520ZGC-E03	InGaN	525	water clear	2200	4000	20°	(1.055) (1.055) (1.025) (1.025) (1.025) (1.025)
KM2520ZGC-G03	InGaN	525	water clear	2800	5000	20°	
KM2520QBC-D03	InGaN	470	water clear	180	500	20°	2.8(.1)
KM2520QBC-F03	InGaN	465	water clear	480	850	20°	4.5(.177)±0.5 C 2(.079)±0.1
KM2520QBC-G03	InGaN	4 65	water clear	650	1300	20°	Units : mm(inch) Tolerance : ±0.25(0.01)
KM2520SURCK08	AlGaInP	630	water clear	900	2400	20°	Subminiature Solid State Lamps Yoke Lead
KM2520SECK08	AlGaInP	6 01	water clear	900	2500	20°	2.5(.098)±0.1
KM2520SYCK08	AlGaInP	- 590	water clear	900	2200	20°	(.043)
KM2520MGC08	AlGaInP	570	water clear	380	900	20°	Ø1.9(.075) 0 1 0 0 2 KM2520xxx08
KM2520CGCK08	AlGaInP	570	water clear	280	700	20°	
KM2520ZGC08	InGaN	525	water clear	1200	2500	20°	ි. 7.62(0.3)MAX.
KM2520ZGC-E08	InGaN	525	water clear	2200	4000	20°	7.62(0.3)MAX. 7.62(0
KM2520ZGC-G08	InGaN	525	water clear	2800	5000	20°	│ ↓╵↓ ─⋝ ╽ ⋖─ ─┤ │─⋝ ╽,╵ │ │
KM2520QBC-D08	InGaN	470	water clear	180	500	20°	15(.006)
KM2520QBC-F08	InGaN	465	water clear	480	850	20°	O 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
KM2520QBC-G08	InGaN	4 65	water clear	650	1300	20°	Units : mm(inch) Tolerance : 0.25(0.01)
KM2520SURCK09	AlGaInP	630	water clear	900	2400	20°	Subminiature Solid State Lamps Z-Bend Lead
KM2520SECK09	AlGaInP	6 01	water clear	900	2500	20°	2.5[.098]±0.1
KM2520SYCK09	AlGaInP	- 590	water clear	900	2200	20°	0. 1.1[.043]±0.125 91.9[.075]
KM2520MGC09	AlGaInP	570	water clear	380	900	20°	Kin2520XXX03
KM2520CGCK09	AlGaInP	570	water clear	280	700	20°	10 10 10
KM2520ZGC09	InGaN	525	water clear	1200	2500	20°	2[.079]±0.1
KM2520ZGC-E09	InGaN	525	water clear	2200	4000	20°	1 0 .
KM2520ZGC-G09	InGaN	525	water clear	2800	5000	20°	2.8[.11]±0.1 1.4[.055]±0.1 6[.024] 0.15[.006]±0.02
KM2520QBC-D09	InGaN	470	water clear	180	500	20°	
KM2520QBC-F09	InGaN	465	water clear	480	850	20°	5.8[.228]±0.3
KM2520QBC-G09	InGaN	465	water clear	650	1300	20°	Units : mm(inch) Tolerance : ±0.25(0.01)

SUBMINIATURE SMD LED

PART NUMBER	MATERIAL	λD	LENS TYPE			VIEWING ANGLE	DIMENSION				
		(nm)		MIN.	TYP.	201/2					
KM-27SURCK-03	AlGaInP	6 30	water clear	900	2400	20°	Subminiature Solid State Lamps Gull Wing Lead				
KM-27SECK-03	AlGalnP	6 01	water clear	900	2500	20°	POLARITY MARK				
KM-27SYCK-03	AlGaInP	<u> </u>	water clear	900	2200	20°					
KM-27MGC-03	AlGaInP	570	water clear	380	900	20°	\$0 \$1.78(.07) \$1.00 \$1.78(.07) \$1.00				
KM-27CGCK-03	AlGalnP	570	water clear	280	700	20°	^>/				
KM-27ZGC-03	InGaN	525	water clear	1200	2500	20°	2.21(.087) (5) 0+ ±0.1 (6)				
KM-27ZGC-E-03	InGaN	525	water clear	2200	4000	20°					
KM-27ZGC-G-03	InGaN	525	water clear	2800	5000	20°	2.92(.15) 0.050(-0.15) 0.050(-0.15) 0.050(-0.15) 0.050(-0.15)				
KM-27QBC-D-03	InGaN	470	water clear	180	500	20°	2.035(.08) 6 2.1(.087) ±0.1				
KM-27QBC-F-03	InGaN	465	water clear	480	850	20°	2.21(.087) ±0.1 ±0.1 4.5(.177)±0.5				
KM-27QBC-G-03	InGaN	465	water clear	650	1300	20°	Units : mm(inch) Tolerance : ±0.25(0.01)				
KM-27SURCK-09	AlGalnP	6 30	water clear	900	2400	20°	Subminiature Solid State Lamps Z-Bend Lead				
KM-27SECK-09	AlGalnP	6 01	water clear	900	2500	20°	POLARITY MARK Ø1.78(.07)				
KM-27SYCK-09	AlGalnP	<u> </u>	water clear	900	2200	20°	© 1.78(.07) 2 KM-27-09				
KM-27MGC-09	AlGalnP	570	water clear	380	900	20°	CO SC O T				
KM-27CGCK-09	AlGaInP	570	water clear	280	700	20°	ਂ ਜੂੰ 5.8(.228)±0.3				
KM-27ZGC-09	InGaN	525	water clear	1200	2500	20°	4.3(.169)±0.3				
KM-27ZGC-E-09	InGaN	525	water clear	2200	4000	20°	2.035(.08)±0.1 ±0.1				
KM-27ZGC-G-09	InGaN	525	water clear	2800	5000	20°	2.92(.115)MAX 1.905(.075) 2.92(.115)MAX 0.006)				
KM-27QBC-D-09	InGaN	470	water clear	180	500	20°	7.326.2 1.04 (20.34) 1.04 (20.34) 1.05 (20.34) 2.20 (20.34) 1.05 (20.34) 2.20 (20.34) 1.06 (20.34) 2.20 (20.34) 1.06 (20.34) 1.07 (20.34) 1.08 (20.34) 1.09 (2				
KM-27QBC-F-09	InGaN	465	water clear	480	850	20°	후 # joing 2.21(.087) (사)				
KM-27QBC-G-09	InGaN	465	water clear	650	1300	20°	Units : mm(inch) Tolerance : ±0.25(0.01)				

REVERSE MOUNT SMD LED

PART NUMBER	MATERIAL	λD	LENS TYPE		ncd) DmA	VIEWING ANGLE	DIMENSION
		(nm)		MIN.	TYP.	201/2	
KPTR-3216SURCK	AlGaInP	6 30	water clear	70	220	120°	3.2mm x 1.6mm x 1.05mm (1206 Reverse Mount)
KPTR-3216SECK	AlGaInP	6 01	water clear	70	240	120°	0.6(.024) POLARITY MARK
KPTR-3216SYCK	AlGaInP	- 590	water clear	50	150	120°	
KPTR-3216MGC	AlGaInP	570	water clear	36	70	120°	1 ° 2 KPTR-3216
KPTR-3216CGCK	AlGaInP	570	water clear	10	50	120°	3.2(.126)
KPTR-3216ZGC	InGaN	525	water clear	110	300	120°	1.4(.055)
KPTR-3216ZGC-E	InGaN	525	water clear	280	650	120°	(64)
KPTR-3216ZGC-G	InGaN	525	water clear	380	700	120°	1.05(.04)
KPTR-3216QBC-D	InGaN	470	water clear	36	100	120°	0.5(.02)
KPTR-3216QBC-F	InGaN	465	water clear	50	150	120°	
KPTR-3216QBC-G	InGaN	465	water clear	70	180	120°	Units : mm(inch) Tolerance : ±0.2(0.008)

NOTE:

1.KP series custom-made is available upon request.

SOT-23 SMD LED

PART NUMBER	MATERIAL	λD	LENS TYPE		mcd) 0mA	VIEWING ANGLE	DIMENSION
		(nm)		MIN.	TYP.	201/2	
KM-23ID-F	GaAsP/GaP	625	red diffused	4	12	140°	SOT-23 Surface Mount LED Lamp (3mm x 1.3mm)
KM-23EC-F	GaAsP/GaP	625	water clear	4	15	140°	SO1
KM-23SRD-F	GaAlAs	640	red diffused	36	70	140°	
KM-23SRC-F	GaAlAs	6 40	water clear	36	90	140°	2.1(.083) 1.05(.041) 0.1(.004)
KM-23YD-F	GaAsP/GaP	<u> </u>	yellow diffused	2.6	8.5	140°	
KM-23YC-F	GaAsP/GaP	<u> </u>	water clear	2.6	10	140°	2 + + + 1 - 1 0 0.1 MAX.
KM-23SYD-F	AlGalnP	9590	yellow diffused	50	100	140°	0.1MAX. 10.MAX.
KM-23SYC-F	AlGaInP	9590	water clear	50	150	140°	1 10 MAX.
KM-23SGD-F	GaP	568	green diffused	2.6	8	140°	10'MAX. 0.7(.028)
KM-23SGC-F	GaP	568	water clear	4	15	140°	0.4(.016) ±0.15
KM-23CGCK-F	AlGaInP	570	water clear	18	50	140°	3(.118) +0 -0.2 1.05(.041)±0.15
KM-23ZGC-F	InGaN	525	water clear	70	250	140°	
KM-23ZGC-E-F	InGaN	525	water clear	110	450	140°	KM-23xx-F KM-23SRx-F
KM-23ZGC-G-F	InGaN	525	water clear	280	500	140°	1. ANODE 1. CATHODE
KM-23QBC-D-F	InGaN	470	water clear	36	80	140°	2. N.C 2. N.C 3. CATHODE 3. ANODE
KM-23QBC-F-F	InGaN	465	water clear	50	100	140°	Units : mm(inch)
KM-23QBC-G-F	InGaN	465	water clear	70	140	140°	Tolerance : ±0.25(0.01)

AMBIENT LIGHT SENSOR

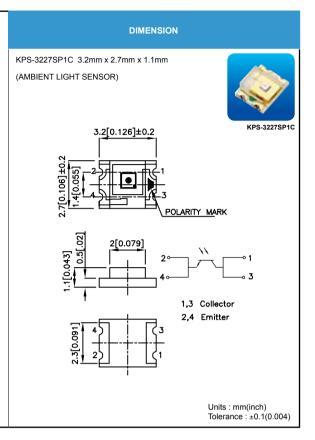
PART NUMBER

KPS-3227SP1C

ELECTRICAL AND RADIANT CHARACTERISTICS (TA =25°C,UNLESS OTHERWISE SPECIFIED)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Collector Emitter Breakdown Voltage	BVceo	60	-	-	٧	Iceo=100μA
Emitter Collector Breakdown Voltage	BVeco	4	-	-	٧	leco=100μA
Collector Dark Current	ΙD	-	10	100	nA	VCE=5V EV=0Lx
Angle Of half Sensitivity	201/2	-	120	-	۰	-
Light Current(1)	IPH1	-	6	-	μΑ	VCE=5V,Ev=100 Lx[1]
Light Current(2)	IPH2		130	-	μΑ	VCE=5V,Ev=1000 Lx[1]
Light Current(3)	Ірнз	-	950	-	μΑ	VCE=5V,Ev=1000 Lx ^[2]
Light Current(4)	IPH4	-	420	-	μΑ	VCE=5V,Ev=1000 Lx[3]
Saturation Output Voltage	Vo	4.5	4.7	-	٧	VCC=5V,EV=1000Lx ^[1] , RL=75KΩ
Peak Wavelength	λР	-	580	-	nm	-
Response Wavelength	λ	390	-	700	nm	>10% Response
Collector Emitter Saturation Voltage	VCE(sat)	-	-	0.4	٧	IC=10 mA

- Notes: 1.White Fluorescent light (Color Temperature = 6200K) is used as light source.
- 2.Illuminance by CIE standard illuminant-A/2856K, incandescet lamp.
 3.Sunlight (Color Temperature = 4600K) is used as light source.



COLOR SENSOR

PART NUMBER

KPS-5130PD7C

ELECTRICAL AND RADIANT CHARACTERISTICS (TA =25°C,UNLESS OTHERWISE SPECIFIED)

PARAMETER	SYMBOL	CONDIT	MIN.	TYP.	MAX.	UNIT	
		Red		-	620	-	
Peak Sensitivity Wavelength	λР	Greer	1	-	550	-	nm
		Blue		-	470	-	
			Red	-	0.039	-	
Light Current (1)	I L1	100Lux [1] VR =5V	Green	-	0.042	-	μΑ
			Blue	-	0.022	-	
			Red	-	0.427	-	
Light Current (2)	I L2	1000Lux [1] VR =5V	Green	-	0.498	-	V
			Blue	-	0.262	-	
Diameter of the irradiation sensitive area	D			-	2.0	-	mm
Irradiation sensitive area per element	Α			-	0.85	-	mm ²
Photo sensibility of the single color areas	Ѕмах	λ R=620 nm λ G=550 nm λ B=470 nm		-	0.33 0.25 0.18	-	A/W
Reverse Dark Current	ΙD	VR =5	V	-	-	10	nA

1.White fluorescent light (Color Temperature = 6500K) is used as light source

DIMENSION KPS-5130PD7C 5.12mm x 3mm x 1.1mm (RGB COLOR SENSOR) 5.12(0.202) KPS-5130PD7C 2 <u>cathode ma</u>rk //B 4. Cathode 1.2.3. Anode Units : mm(inch) Tolerance : $\pm 0.1(0.004)$