

# Kingbright

Kingbright Electronic Europe GmbH



## Low Current SMD LED

- Compact sizes including 0402, 0603, 0805, 1206 and many other options
- Available in various colour selections: blue, green, yellow, orange, red and bi-colour
- Different viewing angles vary from 10° to 140° for design requirements
- Mounting options include top-mount and right angle
- Chip type, PLCC, and subminiature options
- Flexible colour combinations in bi-colour combinations available upon request
- Robust and high reliability with competitive lead time

## LOW CURRENT SMD LED

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @2mA		Viewing Angle 2 $\theta$ 1/2	Dimensions
				Min.	Typ.		
KPHHS-1005LVSECK-J3-PF	AlGaInP	625	Water Clear	15	35	120°	<p>1.0mm x 0.5mm x 0.5mm (0402)</p> <p>LED Chip</p> <p><b>KPHHS-1005LV</b></p> <p>LVZGCK LVQBC-D</p> <p>LED Chip</p> <p>Units: mm (inch) Tolerance: <math>\pm 0.1</math> (0.004)</p>
KPHHS-1005LVSECK-J4-PF	AlGaInP	605	Water Clear	20	40	120°	
KPHHS-1005LVSYCK-J3-PF	AlGaInP	590	Water Clear	10	20	120°	
KPHHS-1005LVCGCK	AlGaInP	570	Water Clear	1.2	3.5	120°	
KPHHS-1005LVZGCK	InGaN	525	Water Clear	20	40	140°	
KPHHS-1005LVQBC-D	InGaN	465	Water Clear	6	15	140°	
KPHD-1608LVSURCK	AlGaInP	630	Water Clear	4	15	100°	<p>1.6mm x 0.8mm x 0.65mm (0603)</p> <p>Polarity mark</p> <p><b>KPHD-1608LV</b></p> <p>Units: mm (inch) Tolerance: <math>\pm 0.15</math> (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-1608LVVBC-D	InGaN	470	Water Clear	15	45	100°	
KPHD-1608LVQBC-D	InGaN	465	Water Clear	10	25	100°	
KPT-1608LVSECK-J3-PRV	AlGaInP	625	Water Clear	20	40	120°	<p>1.6mm x 0.8mm x 0.75mm (0603)</p> <p><b>KPT-1608LV</b></p> <p>Units: mm (inch) Tolerance: <math>\pm 0.1</math> (0.004)</p>
KPT-1608LVSECK-J4-PRV	AlGaInP	605	Water Clear	30	50	120°	
KPT-1608LVSYCK-J3-PRV	AlGaInP	590	Water Clear	15	25	120°	
KPT-1608LVZGCK	InGaN	525	Water Clear	50	100	130°	
KPT-1608-LVVBC-D	InGaN	470	Water Clear	15	24	130°	
KPTD-1608LVSECK-J3-PF	AlGaInP	625	Water Clear	20	50	60°	
KPTD-1608LVSECK-J4-PF	AlGaInP	605	Water Clear	80	150	60°	
KPTD-1608LVSYCK-J3-PF	AlGaInP	590	Water Clear	30	55	60°	
KPTD-1608LVZGCK	InGaN	525	Water Clear	120	220	60°	
KPTD-1608-LVVBC-D	InGaN	470	Water Clear	30	65	40°	
							<p>Units: mm (inch) Tolerance: <math>\pm 0.15</math> (0.006)</p>

## LOW CURRENT SMD LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @2mA		Viewing Angle 2θ1/2	Dimensions
				Min.	Typ.		
KPT-2012LVSECK-J3-PRV	AlGaInP	625	Water Clear	20	40	140°	<p>2.0mm x 1.25mm x 0.75mm (0805)</p> <p><b>KPT-2012LV</b></p> <p>2012xxxPRV</p> <p>0.13(0.005) Polarity mark</p> <p>1.25(0.049)</p> <p>2(0.079)</p> <p>1.3(0.051)</p> <p>1.2(0.047)</p> <p>0.75(0.03)</p> <p>0.25(0.01)</p> <p>0.4(0.016) 0.4(0.016)</p> <p>1 2</p> <p>1 2</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
KPT-2012LVSECK-J4-PRV	AlGaInP	605	Water Clear	30	50	140°	
KPT-2012LVSYCK-J3-PRV	AlGaInP	590	Water Clear	15	25	140°	
KPT-2012LVZGCK	InGaN	525	Water Clear	20	50	140°	
KPT-2012LVVBC-D	InGaN	470	Water Clear	15	24	140°	
KPTD-2012LVSURCK	AlGaInP	630	Water Clear	20	50	40°	<p>2.0mm x 1.25mm x 1.05mm (0805)</p> <p><b>KPTD-2012LV</b></p> <p>2.0mm x 1.25mm x 1.05mm (0805)</p> <p>1.25(0.049)</p> <p>2(0.079)</p> <p>0.65(0.026)</p> <p>R0.4(0.016)</p> <p>1.05(0.041)</p> <p>0.4(0.016) 0.4(0.016)</p> <p>1 2</p> <p>1 2</p> <p>Units: mm (inch) Tolerance: ± 0.15 (0.006)</p>
KPTD-2012LVSYCK	AlGaInP	590	Water Clear	30	90	40°	
KPTD-2012LVCGCK	AlGaInP	570	Water Clear	20	40	40°	
KPTD-2012LVZGCK	InGaN	525	Water Clear	180	440	40°	
KPTD-2012LVVBC-D	InGaN	470	Water Clear	30	90	30°	
KPTD-2012LVQBC-D	InGaN	465	Water Clear	20	50	30°	
KPA-2107LVSECK-J3-PRV	AlGaInP	625	Water Clear	15	30	140°	<p>2.1mm x 1.0mm x 0.6mm (Right Angle)</p> <p><b>KPA-2107LV</b></p> <p>2.1(0.083)</p> <p>0.15(0.006) 0.15(0.006)</p> <p>0.6(0.024)</p> <p>1 2</p> <p>1.7(0.067)</p> <p>R0.6(0.024)</p> <p>0.5(0.02) 1(0.039)</p> <p>0.3(0.012) 0.3(0.012)</p> <p>1 2</p> <p>Polarity mark</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p>
KPA-2107LVSECK-J4-PRV	AlGaInP	605	Water Clear	20	40	140°	
KPA-2107LVSYCK-J3-PRV	AlGaInP	590	Water Clear	15	30	140°	
KPA-2107LVZGCK	InGaN	525	Water Clear	20	40	170°	
KPA-2107LVVBC-D	InGaN	470	Water Clear	10	20	170°	
KA-3021LVSESK-J3-TR	AlGaInP	625	Water Clear	20	45	120°	<p>3.0mm x 2.0mm x 1.3mm</p> <p><b>KA-3021LV</b></p> <p>3(0.118)</p> <p>2.7(0.106)</p> <p>2.5(0.098)</p> <p>1.5(0.059)</p> <p>2(0.079)</p> <p>Polarity mark</p> <p>0.3(0.012)</p> <p>0.65(0.026)</p> <p>1.3(0.051)</p> <p>0.75(0.03)</p> <p>1.4(0.055)</p> <p>1 2</p> <p>1 2</p> <p>Units: mm (inch) Tolerance: ± 0.2 (0.008)</p>
KA-3021LVSESK-J4-TR	AlGaInP	605	Water Clear	30	60	120°	
KA-3021LVSYSK-J3-TR	AlGaInP	590	Water Clear	20	45	120°	
KA-3021LVZGSK	InGaN	525	Water Clear	80	180	120°	
KA-3021LVVBS-D	InGaN	470	Water Clear	20	50	120°	

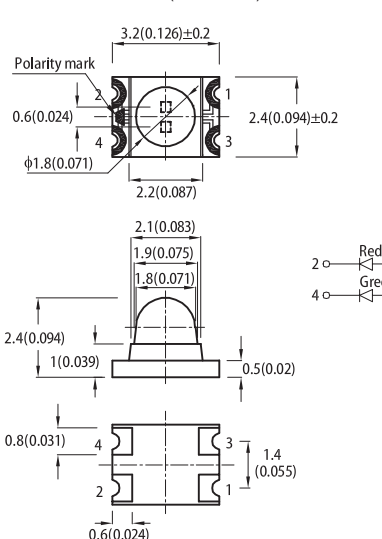
## LOW CURRENT SMD LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @2mA		Viewing Angle	Dimensions
				Min.	Typ.		
KPDA-3020LVSECK-J3-PF	AlGaInP	625	Water Clear	250	500	10°	<p>3.0mm x 2.8mm x 2.0mm (Right Angle)</p> <p>Units: mm (inch) Tolerance: ± 0.2 (0.008)</p>
KPDA-3020LVSECK-J4-PF	AlGaInP	605	Water Clear	550	1000	10°	
KPDA-3020LVSYCK-J3-PF	AlGaInP	590	Water Clear	180	500	10°	
KPDA-3020LVZGCK	InGaIn	525	Water Clear	250	600	10°	
KPDA-3020LVVBC-D	InGaIn	470	Water Clear	80	150	10°	
KPDA-3020LVVBC-D	InGaIn	470	Water Clear	80	150	10°	
KPT-3216LVSECK-J3-PRV	AlGaInP	625	Water Clear	20	40	140°	<p>3.2mm x 1.6mm x 0.75mm (1206)</p> <p>Units: mm (inch) Tolerance: ± 0.2 (0.008)</p>
KPT-3216LVSECK-J4-PRV	AlGaInP	605	Water Clear	30	50	140°	
KPT-3216LVSYCK-J3-PRV	AlGaInP	590	Water Clear	15	25	140°	
KPT-3216LVZGCK	InGaIn	525	Water Clear	20	50	150°	
KPT-3216LVVBC-D	InGaIn	470	Water Clear	15	24	150°	
KPT-3216LVVBC-D	InGaIn	470	Water Clear	15	24	150°	
KPTD-3216LVSRCK	AlGaInP	630	Water Clear	20	50	40°	<p>3.2mm x 1.6mm x 1.8mm (1206 Dome Lens)</p> <p>Units: mm (inch) Tolerance: ± 0.2 (0.008)</p>
KPTD-3216LVSYCK	AlGaInP	590	Water Clear	18	40	40°	
KPTD-3216LVCGCK	AlGaInP	570	Water Clear	15	25	40°	
KPTD-3216LVZGCK	InGaIn	525	Water Clear	180	290	30°	
KPTD-3216LVVBC-D	InGaIn	470	Water Clear	50	120	30°	
KPTD-3216LVQBC-D	InGaIn	465	Water Clear	40	100	30°	
KA-3528LVSECKT-J3	AlGaInP	625	Water Clear	30	50	120°	<p>3.5mm x 2.8mm x 1.9mm</p> <p>Units: mm (inch) Tolerance: ± 0.25 (0.01)</p>
KA-3528LVSECKT-J4	AlGaInP	605	Water Clear	30	60	120°	
KA-3528LVSYCKT-J3	AlGaInP	590	Water Clear	20	30	120°	
KA-3528LVZGCKT	InGaIn	525	Water Clear	50	90	120°	
KA-3528LVVBS-D	InGaIn	470	Water Clear	30	45	120°	
KA-3528LVVBS-D	InGaIn	470	Water Clear	30	45	120°	

## LOW CURRENT SMD LED

Part Number	Material	λD (nm)	Lens Type	Iv (mcd) @2mA		Viewing Angle 2θ1/2	Dimensions	
				Min.	Typ.			
KPHB-1608LVCGKSURKC	AlGaInP	570	Water Clear	1.2	3	130°	<p>1.6mm x 0.8mm x 0.5mm (0603 Bi-Color)</p> <p><b>KPHB-1608LV</b></p>	
	AlGaInP	630		2	8			
KPHB-1608LVZGKSURKC	InGaN	525	Water Clear	20	40	130°		
	AlGaInP	630		2	8			
Other colour combinations are available upon request!								
KPTB-1612LVSURKCGKC	AlGaInP	630	Water Clear	4	9	150°		<p>1.6mm x 1.25mm x 0.65mm (Bi-Color)</p> <p><b>KPTB-1612LV</b></p>
	AlGaInP	570		1.2	3			
KPTB-1612LVSURKZGKC	AlGaInP	630	Water Clear	4	9	150°		
	InGaN	525		30	50			
Other colour combinations are available upon request!								
KPHBM-2012LVSURKCGKC	AlGaInP	630	Water Clear	2	10	120°	<p>2.0mm x 1.25mm x 0.45mm (0805 Super Thin, Bi-Color)</p> <p><b>KPHBM-2012LV</b></p>	
	AlGaInP	570		1.2	2			
KPHBM-2012LVSURKZGKC	AlGaInP	630	Water Clear	2	10	120°		
	InGaN	525		50	90			
Other colour combinations are available upon request!								

## LOW CURRENT SMD LED

Part Number	Material	$\lambda_D$ (nm)	Lens Type	Iv (mcd) @2mA		Viewing Angle	Dimensions
				Min.	Typ.		
KPBD-3224LVSURKCGKC	AlGaInP	630	Water Clear	10	30	20°	3.2mm x 2.4mm x 2.4mm (Dome Lens)
	AlGaInP	570		10	30		
KPBD-3224LVSURKZGKC	AlGaInP	630	Water Clear	10	30	20°	 3.2(0.126)±0.2 0.6(0.024) 4 φ1.8(0.071) 2.2(0.087) 2.4(0.094)±0.2 1 3 2.1(0.083) 1.9(0.075) 1.8(0.071) 2.4(0.094) 1(0.039) 0.5(0.02) 0.8(0.031) 4 3 2 1 1.4(0.055) 0.6(0.024)
	InGaN	525		120	250		

Other colour combinations are available upon request!

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

## 0201 PACKAGE – THE SMALLEST SMD-LED PACKAGE!

### KPG-0603 SERIES

**Features:**

**Dimensions:** 0,65 mm x 0,35 mm x 0,2 mm

Wide viewing angle of 135° and 145°

High luminous intensity

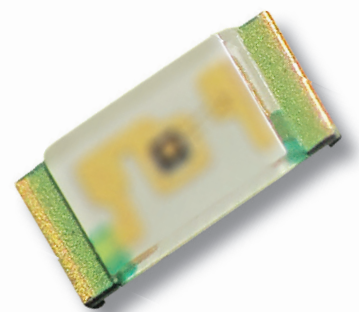
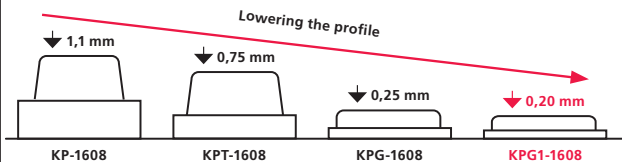
Available colours = red, orange, green, yellow and blue

The 0201 package is suitable for mobile phones and portable electronic devices, digital cameras and camcorders, keyboards, loud speakers, head- and ear phones, microphones, hearing aids and medical devices. Especially for all applications in which the 0402 package is too large.



## NEW SUPER-FLAT SMD-LED WITH 0,20 MM HEIGHT

### KPG1-1608 SERIES



Features: Dimensions = 1,6 mm x 0,8 mm x 0,2 mm. Available in the colour red, orange, green, yellow and blue. Low power consumption

## NEW DOME-LENS SMD-LED IN 0805 PACKAGE

### KPTD-2012 SERIES

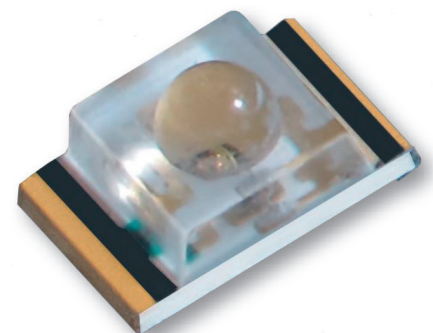
**Features:**

Dimensions = 2,0 mm x 1,25 mm, thickness = 1,05 mm

Available in the colours red, orange, green, yellow and blue

**Applications:**

Backlight, Status indicator, Home and smart appliances  
Wearable and portable devices, Healthcare applications



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