

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 | λ_D (nm) | Lens Type | Iv (mcd) @2mA | | Viewing Angle 2 θ 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>KPHHS-1005LV</p> <p>LVZGCK LVQBC-D</p> <p>Units: mm (inch) Tolerance: ± 0.1 (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>KPHD-1608LV</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-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>KPT-1608LV</p> <p>1608xxxPRV</p> <p>Units: mm (inch) Tolerance: ± 0.1 (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-1608LVVBC-D | InGaN | 470 | Water Clear | 30 | 65 | 40° | |

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>Polarity mark</p> <p>1.25(0.049)</p> <p>0.13(0.005)</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)</p> <p>0.4(0.016)</p> <p>1 2</p> <p>1.25(0.049)</p> <p>0.13(0.005)</p> <p>Polarity mark</p> <p>1 2</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p> <p>KPT-2012LV</p> <p>2012xxxPRV</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° | |
| 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>2.1(0.083)</p> <p>0.15(0.006)</p> <p>0.15(0.006)</p> <p>0.6(0.024)</p> <p>1 2</p> <p>R0.6(0.024)</p> <p>1.7(0.067)</p> <p>0.5(0.02)</p> <p>1(0.039)</p> <p>0.3(0.012)</p> <p>0.3(0.012)</p> <p>1 2</p> <p>Polarity mark</p> <p>1 2</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p> <p>KPA-2107LV</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>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> <p>KA-3021LV</p> <p>LVZGSK LVGBS-D</p> <p>1 2</p> <p>LVSESK-J3-TR LVSESK-J4-TR LVSYSK-J3-TR</p> <p>1 2</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° | |

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|-----------------------|----------|---------|-------------|---------------|------|---------------------|--|
| | | | | 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 | InGaN | 525 | Water Clear | 250 | 600 | 10° | |
| KPDA-3020LVVBC-D | InGaN | 470 | Water Clear | 80 | 150 | 10° | |
| KPDA-3020LVVBC-D | InGaN | 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 | InGaN | 525 | Water Clear | 20 | 50 | 150° | |
| KPT-3216LVVBC-D | InGaN | 470 | Water Clear | 15 | 24 | 150° | |
| KPT-3216LVVBC-D | InGaN | 470 | Water Clear | 15 | 24 | 150° | |
| KPTD-3216LVSURCK | 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 | InGaN | 525 | Water Clear | 180 | 290 | 30° | |
| KPTD-3216LVVBC-D | InGaN | 470 | Water Clear | 50 | 120 | 30° | |
| KPTD-3216LVQBC-D | InGaN | 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 | InGaN | 525 | Water Clear | 50 | 90 | 120° | |
| KA-3528LVVBS-D | InGaN | 470 | Water Clear | 30 | 45 | 120° | |
| KA-3528LVVBS-D | InGaN | 470 | Water Clear | 30 | 45 | 120° | |

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| Part Number | Material | λ_D (nm) | Lens Type | Iv (mcd) @2mA | | Viewing Angle | 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>LED Chip</p> <p>Polarity mark</p> <p>Units: mm (inch) Tolerance: ± 0.15 (0.006)</p> | | | | |
| | AlGaInP | 630 | | 2 | 8 | | | | | | |
| KPHB-1608LVZGKSURKC | InGaN | 525 | Water Clear | 20 | 40 | 130° | | <p>1.6mm x 1.25mm x 0.65mm (Bi-Color)</p> <p>LED Chip</p> <p>Polarity mark</p> <p>Units: mm (inch) Tolerance: ± 0.2 (0.008)</p> | | | |
| | AlGaInP | 630 | | 4 | 9 | | | | | | |
| KPTB-1612LVZGKSURKC | InGaN | 525 | Water Clear | 30 | 50 | 150° | | | <p>2.0mm x 1.25mm x 0.45mm (0805 Super Thin, Bi-Color)</p> <p>LED Chip</p> <p>Polarity mark</p> <p>Units: mm (inch) Tolerance: ± 0.1 (0.004)</p> | | |
| | AlGaInP | 630 | | 2 | 10 | | | | | | |
| KPHBM-2012LVZGKSURKC | InGaN | 525 | Water Clear | 50 | 90 | 120° | | | | <p>Other colour combinations are available upon request!</p> | |
| | AlGaInP | 630 | | 2 | 2 | | | | | | |
| KPHB-1608LVCGKSURKC | AlGaInP | 630 | Water Clear | 4 | 9 | 150° | | | | | <p>Other colour combinations are available upon request!</p> |
| | AlGaInP | 570 | | 1.2 | 3 | | | | | | |
| KPHB-1608LVZGKSURKC | AlGaInP | 630 | Water Clear | 4 | 9 | 150° | <p>Other colour combinations are available upon request!</p> | | | | |
| | AlGaInP | 570 | | 1.2 | 3 | | | | | | |
| KPHB-1608LVZGKSURKC | InGaN | 525 | Water Clear | 20 | 40 | 130° | | <p>Other colour combinations are available upon request!</p> | | | |
| | AlGaInP | 630 | | 2 | 8 | | | | | | |
| KPTB-1612LVZGKSURKC | InGaN | 525 | Water Clear | 30 | 50 | 150° | | | <p>Other colour combinations are available upon request!</p> | | |
| | AlGaInP | 630 | | 4 | 9 | | | | | | |
| KPHBM-2012LVZGKSURKC | InGaN | 525 | Water Clear | 50 | 90 | 120° | | | | <p>Other colour combinations are available upon request!</p> | |
| | AlGaInP | 630 | | 2 | 10 | | | | | | |
| KPHBM-2012LVZGKSURKC | InGaN | 525 | Water Clear | 50 | 90 | 120° | | | | | <p>Other colour combinations are available upon request!</p> |
| | AlGaInP | 630 | | 2 | 10 | | | | | | |

LOW CURRENT SMD LED

| Part Number | Material | λ_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° | |
| | 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

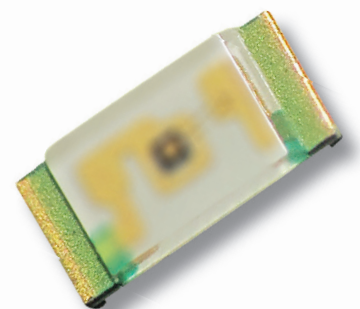
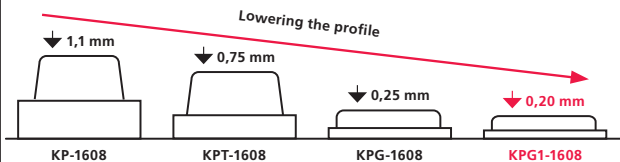
Available colours = red, orange, green, yellow and blue

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:

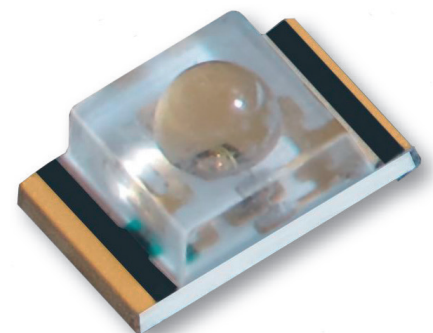
Dimensions = 2,0 mm x 1,25 mm, thickness = 1,05 mm

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

Applications:

Backlight, Status indicator, Home and smart appliances

Wearable and portable devices, Healthcare applications



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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