

Ennostar

Lighting LED and Module

Indoor Luminaries

225lm/W solution for Indoor luminaries

Industry standard footprint for drop-in replacement designs

Available in High CRI KSF versions



3014



4014



2835 0.2W



2835 1W
6V/9V/18V/36V



COB



Outdoor & Industrial

230lm/W & L90>50Khrs

Best lm/\$ solution for outdoor & industrial lighting



3030



5050



2020



3535



UV

UVA & UVC solution featuring high radiant power for various purposes and specific applications



2835 UVA



3535 UVA



3535 UVC



6868 UVA/
6868 UVC



Human Centric Lighting

Low blue & optimized MP ratio solution
Keeping your eyes healthy in modern world



4014



3030 EMC

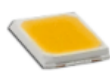


Food Enhancement Lighting

Advanced color management on customized spectrum & CCT
Ideally designed for food industry



3014



2835



3030 EMC



Clean Room Yellow Light

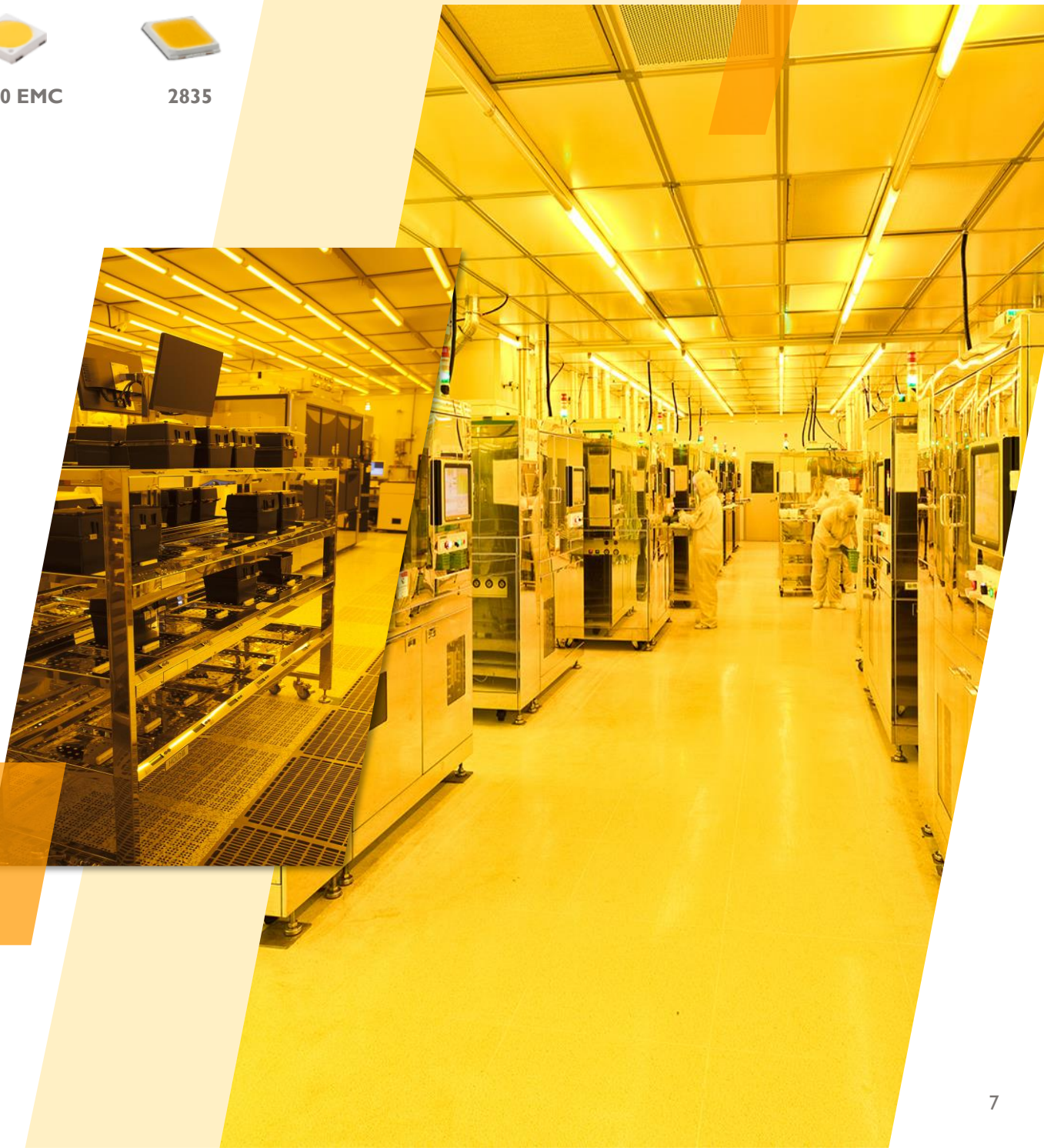
PC Amber for yellow light solution
High Efficiency Lamp up to 150lm/W | Cut-off of < 520nm wavelength



3030 EMC



2835



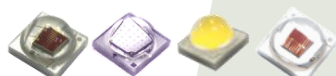
Horticultural Lighting

High efficacy 660nm hyper Red >4 PPE solution

Excellent reliability design with great lifetime performance



3030 0.5W



3535 1~3W



COB 10~100W



Color LED

Integrated mix color solution for emergency warning light application

Single color:



3030 0.5W



2020 1~3W



1717CSP 1~2W



3535 1~3W

Multi-Color in one:



0.2~1W RGB/RGBW in one



1W~5W RGB/RGBW in one



Contents

Low-Mid Power Series

3806\2016\3014\4014\5630
56A\3030PCT(Round)\3030EMC\2835

11

High Power Series

2835\55B 5050EMC HV

26

Color Series

2020 Color\1717 Color\3535 Color

31

Multi – Color LED

5050 RGB in 1\5050 RGBW in 1
3030 Color\1717 Color\3535 Color\3535 9W

37

Horticulture Series

3030\3535

44

COB

Version 5

46

Low-Mid Power Series

- 3806
- 2016
- 3014
- 4014
- 5630 56A
- 3030PCT(Round)
- 3030EMC
- 2835

Low-Mid Power Series

3806



3.8 x 0.6 x 1 (mm)

- LM-80 certified LED
- ANSI 2700-10000K available for 3806
- Side emitting package, Ideal for slim lighting

| CRI | CCT | Model Name | Vf | Luminus Flux(lm) | | | | | | | | |
|----------------|-------|------------|---------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--|
| | | | | F9 6-6.5 | FA 6.5-7 | FB 7-7.5 | FC 7.5-8 | FD 8-8.5 | FE 8.5-9 | FF 9-9.5 | FG 9.5-10 | |
| 80 20mA,25C | 2700K | PC38H01 V0 | 2.7-3.2 | | | | | | | | | |
| | 3000K | | 2.7-3.2 | | | | | | | | | |
| | 3500K | | 2.7-3.2 | | | | | | | | | |
| | 4000K | | 2.7-3.2 | | | | | | | | | |
| | 5000K | | 2.7-3.2 | | | | | | | | | |
| | 5700K | | 2.7-3.2 | | | | | | | | | |
| 90 20mA,25C | 6500K | PC38U02 V0 | 2.7-3.2 | | | | | | | | | |
| | 2700K | | 2.7-3.2 | | | | | | | | | |
| | 3000K | | 2.7-3.2 | | | | | | | | | |
| | 3500K | | 2.7-3.2 | | | | | | | | | |
| | 4000K | | 2.7-3.2 | | | | | | | | | |
| | 5000K | | 2.7-3.2 | | | | | | | | | |
| | 5700K | | 2.7-3.2 | | | | | | | | | |
| | 6500K | | 2.7-3.2 | | | | | | | | | |

Low-Mid Power Series

2016



2.2 x 1.6 x 0.55 (mm)

- LM-80 certified LED
- ANSI 2700-10000K available for 2016
- Best performance and competitive cost

| CRI | CCT | Model Name | Vf | Luminous Flux(lm) | | | | | | | | |
|----------------|---------|------------|---------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| | | | | TB 18-20 | TC 20-22 | TD 22-24 | TE 24-26 | TF 26-28 | TG 28-30 | TH 30-32 | TI 32-34 | |
| 80 65mA 25C | 2700K | PC20H01 V0 | 2.7-3.2 | | | | | | | | | |
| | 3000K | | 2.7-3.2 | | | | | | | | | |
| | 3500K | | 2.7-3.2 | | | | | | | | | |
| | 4000K | | 2.7-3.2 | | | | | | | | | |
| | 5000K | | 2.7-3.2 | | | | | | | | | |
| | 5700K | | 2.7-3.2 | | | | | | | | | |
| 90 65mA 25C | 6500K | PC20U06 V0 | 2.7-3.2 | | | | | | | | | |
| | 2700K | | 2.7-3.2 | | | | | | | | | |
| | 3000K | | 2.7-3.2 | | | | | | | | | |
| | 3500K | | 2.7-3.2 | | | | | | | | | |
| | 4000K | | 2.7-3.2 | | | | | | | | | |
| | 5000K | | 2.7-3.2 | | | | | | | | | |
| | 5700K | | 2.7-3.2 | | | | | | | | | |
| 6500K | 2.7-3.2 | | | | | | | | | | | |

Low-Mid Power Series

3014



3.0 × 1.4 × 0.65 (mm)

- LM-80 certified LED
- Small size & high lumen output
- Wide CCT range available 1800K-8000K
- Best performance and competitive cost for panel light
- 190lm/W Ra90 KSF solution

| CRI | CCT | Model Name | Vf | Luminus Flux(lm) | | | | | | | | | |
|----------------|-------|------------|---------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| | | | | TB 18-20 | TC 20-22 | TD 22-24 | TE 24-26 | TF 26-28 | TG 28-30 | TH 30-32 | TI 32-34 | TJ 34-36 | |
| 95 65mA 25C | 2700K | PC30V21 V0 | 2.8-3.1 | | | | | | | | | | |
| | 3000K | | 2.8-3.1 | | | | | | | | | | |
| | 3500K | | 2.8-3.1 | | | | | | | | | | |
| | 4000K | | 2.8-3.1 | | | | | | | | | | |
| | 5000K | | 2.8-3.1 | | | | | | | | | | |
| | 5700K | | 2.8-3.1 | | | | | | | | | | |
| | 6500K | | 2.8-3.1 | | | | | | | | | | |
| 80 65mA 25C | 2700K | PC30H08 V1 | 2.8-3.1 | | | | | | | | | | |
| | 3000K | | 2.8-3.1 | | | | | | | | | | |
| | 3500K | | 2.8-3.1 | | | | | | | | | | |
| | 4000K | | 2.8-3.1 | | | | | | | | | | |
| | 5000K | | 2.8-3.1 | | | | | | | | | | |
| | 5700K | | 2.8-3.1 | | | | | | | | | | |
| | 6500K | | 2.8-3.1 | | | | | | | | | | |
| 80 65mA 25C | 2700K | PC30H08 V3 | 2.8-3.1 | | | | | | | | | | |
| | 3000K | | 2.8-3.1 | | | | | | | | | | |
| | 3500K | | 2.8-3.1 | | | | | | | | | | |
| | 4000K | | 2.8-3.1 | | | | | | | | | | |
| | 5000K | | 2.8-3.1 | | | | | | | | | | |
| | 5700K | | 2.8-3.1 | | | | | | | | | | |
| | 6500K | | 2.8-3.1 | | | | | | | | | | |
| 80 65mA 25C | 2700K | PC30H08 V4 | 2.8-3.1 | | | | | | | | | | |
| | 3000K | | 2.8-3.1 | | | | | | | | | | |
| | 3500K | | 2.8-3.1 | | | | | | | | | | |
| | 4000K | | 2.8-3.1 | | | | | | | | | | |
| | 5000K | | 2.8-3.1 | | | | | | | | | | |
| | 5700K | | 2.8-3.1 | | | | | | | | | | |
| | 6500K | | 2.8-3.1 | | | | | | | | | | |
| 80 65mA 25C | 2700K | PC30H08 V5 | 2.8-3.1 | | | | | | | | | | |
| | 3000K | | 2.8-3.1 | | | | | | | | | | |
| | 3500K | | 2.8-3.1 | | | | | | | | | | |
| | 4000K | | 2.8-3.1 | | | | | | | | | | |
| | 5000K | | 2.8-3.1 | | | | | | | | | | |
| | 5700K | | 2.8-3.1 | | | | | | | | | | |
| | 6500K | | 2.8-3.1 | | | | | | | | | | |
| 90 65mA 25C | 2700K | PC30U12 V0 | 2.8-3.1 | | | | | | | | | | |
| | 3000K | | 2.8-3.1 | | | | | | | | | | |
| | 3500K | | 2.8-3.1 | | | | | | | | | | |
| | 4000K | | 2.8-3.1 | | | | | | | | | | |
| | 5000K | | 2.8-3.1 | | | | | | | | | | |
| | 5700K | | 2.8-3.1 | | | | | | | | | | |
| | 6500K | | 2.8-3.1 | | | | | | | | | | |

3014

| CRI | CCT | Model Name | Vf | Luminus Flux(lm) | | | | | | | | |
|---------------------------------------|-------|------------------|---------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | | TB 18-20 | TC 20-22 | TD 22-24 | TE 24-26 | TF 26-28 | TG 28-30 | TH 30-32 | TI 32-34 | TJ 34-36 |
| 90 65mA 25C | 2700K | PC30U12 V1 | 2.8-3.1 | | | | | | | | | |
| | 3000K | | 2.8-3.1 | | | | | | | | | |
| | 3500K | | 2.8-3.1 | | | | | | | | | |
| | 4000K | | 2.8-3.1 | | | | | | | | | |
| | 5000K | | 2.8-3.1 | | | | | | | | | |
| | 5700K | | 2.8-3.1 | | | | | | | | | |
| | 6500K | | 2.8-3.1 | | | | | | | | | |
| NEW 90 65mA 25C KSF solution | 2700K | PC30U12 V3 (KSF) | 2.8-3.1 | | | | | | | | | |
| | 3000K | | 2.8-3.1 | | | | | | | | | |
| | 3500K | | 2.8-3.1 | | | | | | | | | |
| | 4000K | | 2.8-3.1 | | | | | | | | | |
| | 5000K | | 2.8-3.1 | | | | | | | | | |
| | 5700K | | 2.8-3.1 | | | | | | | | | |
| | 6500K | | 2.8-3.1 | | | | | | | | | |

| CRI | CCT | Model Name | Vf | Luminus Flux(lm) | | |
|---------------------------------------|-------|------------------|---------|------------------|---------------|---------------|
| | | | | QG 31-33.5 | QH 33.5-36 | QI 36-38.5 |
| NEW 90 65mA 25C KSF solution | 2700K | PC30U12 V4 (KSF) | 2.7-3.0 | | | |
| | 3000K | | 2.7-3.0 | | | |
| | 3500K | | 2.7-3.0 | | | |
| | 4000K | | 2.7-3.0 | | | |
| | 5000K | | 2.7-3.0 | | | |
| | 5700K | | 2.7-3.0 | | | |
| | 6500K | | 2.7-3.0 | | | |

Low-Mid Power Series

4014



4.0 × 1.4 × 0.65 (mm)

- ANSI 2700K-6500K available for 4014
- High Efficacy & High lm/\$ for panel light
- Ideal for slim lighting

| CRI | CCT | Model Name | Vf | Luminus Flux(lm) | | | | | | |
|----------------|-------|------------|---------|------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | | TD 22-24 | TE 24-26 | TF 26-28 | TG 28-30 | TH 30-32 | TI 32-34 | TJ 34-36 |
| 80 60mA 25C | 2700K | PC40H03 V0 | 2.8-3.3 | | | | | | | |
| | 3000K | | 2.8-3.3 | | | | | | | |
| | 3500K | | 2.8-3.3 | | | | | | | |
| | 4000K | | 2.8-3.3 | | | | | | | |
| | 5000K | | 2.8-3.3 | | | | | | | |
| | 5700K | | 2.8-3.3 | | | | | | | |
| | 6500K | | 2.8-3.3 | | | | | | | |

| CRI | CCT | Model Name | Vf | Luminus Flux(lm) | | | |
|----------------|-------|------------|---------|------------------|---------------|-------------|---------------|
| | | | | PK 31-31.5 | PL 31.5-33 | PM 33-35 | PN 31.5-35 |
| 80 60mA 25C | 3500K | PC40H04 V3 | 2.7-2.9 | | | | |
| | 4000K | | 2.7-2.9 | | | | |
| | 5000K | | 2.7-2.9 | | | | |
| | 6500K | | 2.7-2.9 | | | | |

| CRI | CCT | Model Name | Vf | Luminus Flux(lm) | | | |
|----------------|-------|------------|---------|------------------|-------------|-------------|-------------|
| | | | | CE 23-25 | CF 25-27 | CG 27-29 | CH 29-31 |
| 90 60mA 25C | 2700K | PC40U06 V2 | 2.8-3.3 | | | | |
| | 3000K | | 2.8-3.3 | | | | |
| | 3500K | | 2.8-3.3 | | | | |
| | 4000K | | 2.8-3.3 | | | | |
| | 5000K | | 2.8-3.3 | | | | |
| | 5700K | | 2.8-3.3 | | | | |
| | 6500K | | 2.8-3.3 | | | | |

| CRI | CCT | Model Name | Vf | Luminus Flux(lm) | | | | |
|----------------------------------|-------|------------|-------|------------------|-------------|-------------|-------------|-------------|
| | | | | TC 20-22 | TD 22-24 | TE 24-26 | TF 26-28 | TG 28-30 |
| 95 30mA 25C low blue light | 2700K | PC40V07 V1 | 5-6.2 | | | | | |
| | 3000K | | 5-6.2 | | | | | |
| | 3500K | | 5-6.2 | | | | | |
| | 4000K | | 5-6.2 | | | | | |
| | 5000K | | 5-6.2 | | | | | |
| | 5700K | | 5-6.2 | | | | | |
| | 6500K | | 5-6.2 | | | | | |

Low-Mid Power Series

5630 56A



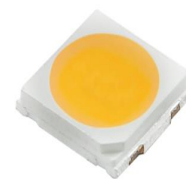
5.6 × 3.0 × 0.6 (mm)

- High Efficiency up to 210 lm/W
- ANSI 1800K-8000K available
- Excellent lifetime L70>100Khrs

| CRI | CCT | Model Name | Vf | Luminus Flux | | | | | | |
|----------------|---------|------------|---------|---------------|---------------|---------------|-----------------|-----------------|-----------------|-----------------|
| | | | | VE 22.5-25 | VF 25.5-28 | VG 28-31.5 | H1 31.5-33.5 | H2 33.5-35.5 | I1 35.5-37.5 | I2 37.5-39.5 |
| 80 65mA 25C | 2700K | PC56H19 V0 | 2.7-3.1 | | | | | | | |
| | 3000K | | 2.7-3.1 | | | | | | | |
| | 3500K | | 2.7-3.1 | | | | | | | |
| | 4000K | | 2.7-3.1 | | | | | | | |
| | 5000K | | 2.7-3.1 | | | | | | | |
| | 5700K | | 2.7-3.1 | | | | | | | |
| | 6500K | | 2.7-3.1 | | | | | | | |
| | 2700K | PC56H19 V1 | 2.7-3.1 | | | | | | | |
| | 3000K | | 2.7-3.1 | | | | | | | |
| | 3500K | | 2.7-3.1 | | | | | | | |
| | 4000K | | 2.7-3.1 | | | | | | | |
| | 5000K | | 2.7-3.1 | | | | | | | |
| | 5700K | | 2.7-3.1 | | | | | | | |
| | 6500K | | 2.7-3.1 | | | | | | | |
| | 2700K | PC56H19 V2 | 2.6-3.0 | | | | | | | |
| | 3000K | | 2.6-3.0 | | | | | | | |
| | 3500K | | 2.6-3.0 | | | | | | | |
| | 4000K | | 2.6-3.0 | | | | | | | |
| 5000K | 2.6-3.0 | | | | | | | | | |
| 5700K | 2.6-3.0 | | | | | | | | | |
| 6500K | 2.6-3.0 | | | | | | | | | |
| 90 65mA 25C | 2700K | PC56U21 V2 | 2.6-3.0 | | | | | | | |
| | 3000K | | 2.6-3.0 | | | | | | | |
| | 3500K | | 2.6-3.0 | | | | | | | |
| | 4000K | | 2.6-3.0 | | | | | | | |
| | 5000K | | 2.6-3.0 | | | | | | | |
| | 5700K | | 2.6-3.0 | | | | | | | |
| | 6500K | | 2.6-3.0 | | | | | | | |

Low-Mid Power Series

3030PCT(Round)



3.2 × 3.0 × 0.6 (mm)

- Excellent reliability meeting professional requirement
- Standard 3030 foot print for drop-in replacement Designs
- Best thermal solution /High performance
- High Efficiency up to 230 lm/W Ra70

| CRI | CCT | Model Name | Vf | Luminus Flux | | | | | | | |
|----------------|-------|------------|---------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|--|
| | | | | VE 22.5-25 | VF 25.5-28 | VG 28-31.5 | H1 31.5-33.5 | H2 33.5-35.5 | I1 35.5-38 | I2 38-40.5 | |
| 80 65mA 25C | 2700K | PC33H23 V0 | 2.7-3.1 | | | | | | | | |
| | 3000K | | 2.7-3.1 | | | | | | | | |
| | 3500K | | 2.7-3.1 | | | | | | | | |
| | 4000K | | 2.7-3.1 | | | | | | | | |
| | 5000K | | 2.7-3.1 | | | | | | | | |
| | 5700K | | 2.7-3.1 | | | | | | | | |
| | 6500K | | 2.7-3.1 | | | | | | | | |
| | 2700K | PC33H23 V2 | 2.6-3.0 | | | | | | | | |
| | 3000K | | 2.6-3.0 | | | | | | | | |
| | 3500K | | 2.6-3.0 | | | | | | | | |
| | 4000K | | 2.6-3.0 | | | | | | | | |
| | 5000K | | 2.6-3.0 | | | | | | | | |
| | 5700K | | 2.6-3.0 | | | | | | | | |
| | 6500K | | 2.6-3.0 | | | | | | | | |

Low-Mid Power Series

3030PCT (Square)



3.2 × 3.0 × 0.65 (mm)

- Excellent reliability meeting professional requirement
- Standard 3030 foot print for drop-in replacement Designs
- Best thermal solution /High performance
- High Efficiency up to 230 lm/W Ra70

| CRI | CCT | Model Name | Vf | Luminus Flux | | | | | | | | |
|-----------------------------------|-------|------------------|---------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| | | | | TG 28-30 | TH 30-32 | TI 32-34 | TJ 34-36 | TK 36-38 | TL 38-40 | TM 40-42 | TN 42-44 | |
| NEW 70 65mA 25C | 2700K | PC33N53 V0 | 2.6-2.8 | | | | | | | | | |
| | 3000K | | 2.6-2.8 | | | | | | | | | |
| | 3500K | | 2.6-2.8 | | | | | | | | | |
| | 4000K | | 2.6-2.8 | | | | | | | | | |
| | 5000K | | 2.6-2.8 | | | | | | | | | |
| | 5700K | | 2.6-2.8 | | | | | | | | | |
| | 6500K | | 2.6-2.8 | | | | | | | | | |
| 80 65mA 25C | 2700K | PC33H61 V1 | 2.6-2.8 | | | | | | | | | |
| | 3000K | | 2.6-2.8 | | | | | | | | | |
| | 3500K | | 2.6-2.8 | | | | | | | | | |
| | 4000K | | 2.6-2.8 | | | | | | | | | |
| | 5000K | | 2.6-2.8 | | | | | | | | | |
| | 5700K | | 2.6-2.8 | | | | | | | | | |
| | 6500K | | 2.6-2.8 | | | | | | | | | |
| 90 65mA 25C | 2700K | PC33U55 V1 | 2.6-2.8 | | | | | | | | | |
| | 3000K | | 2.6-2.8 | | | | | | | | | |
| | 3500K | | 2.6-2.8 | | | | | | | | | |
| | 4000K | | 2.6-2.8 | | | | | | | | | |
| | 5000K | | 2.6-2.8 | | | | | | | | | |
| | 5700K | | 2.6-2.8 | | | | | | | | | |
| | 6500K | | 2.6-2.8 | | | | | | | | | |
| 90 65mA 25C KSF solution | 2700K | PC33U55 V1 (KSF) | 2.6-2.8 | | | | | | | | | |
| | 3000K | | 2.6-2.8 | | | | | | | | | |
| | 3500K | | 2.6-2.8 | | | | | | | | | |
| | 4000K | | 2.6-2.8 | | | | | | | | | |
| | 5000K | | 2.6-2.8 | | | | | | | | | |
| | 5700K | | 2.6-2.8 | | | | | | | | | |
| | 6500K | | 2.6-2.8 | | | | | | | | | |

Low-Mid Power Series

3030EMC



3.2 × 3.0 × 0.6 (mm)

- Best reliability performance
- High reliability, L90>36,000hrs@105oC, 1W
- High efficacy
- Simple design to pair with optical lens

33A 0.2W

| CRI | CCT | Model Name | Vf | Luminus Flux | | | | | | | |
|----------------|-------|------------|---------|---------------|---------------|-----------------|-----------------|-----------------|-----------------|---------------|--|
| | | | | VF 25.5-28 | VG 28-31.5 | H1 31.5-33.5 | H2 33.5-35.5 | I1 35.5-37.5 | I2 37.5-39.5 | J1 39.5-43 | |
| 70 65mA 25C | 2700K | PC33N60 V0 | 2.6-2.8 | | | | | | | | |
| | 3000K | | 2.6-2.8 | | | | | | | | |
| | 3500K | | 2.6-2.8 | | | | | | | | |
| | 4000K | | 2.6-2.8 | | | | | | | | |
| | 5000K | | 2.6-2.8 | | | | | | | | |
| | 5700K | | 2.6-2.8 | | | | | | | | |
| | 6500K | | 2.6-2.8 | | | | | | | | |
| 80 65mA 25C | 2700K | PC33H61 V0 | 2.6-2.8 | | | | | | | | |
| | 3000K | | 2.6-2.8 | | | | | | | | |
| | 3500K | | 2.6-2.8 | | | | | | | | |
| | 4000K | | 2.6-2.8 | | | | | | | | |
| | 5000K | | 2.6-2.8 | | | | | | | | |
| | 5700K | | 2.6-2.8 | | | | | | | | |
| | 6500K | | 2.6-2.8 | | | | | | | | |
| 90 65mA 25C | 2700K | PC33U62 V0 | 2.6-2.8 | | | | | | | | |
| | 3000K | | 2.6-2.8 | | | | | | | | |
| | 3500K | | 2.6-2.8 | | | | | | | | |
| | 4000K | | 2.6-2.8 | | | | | | | | |
| | 5000K | | 2.6-2.8 | | | | | | | | |
| | 5700K | | 2.6-2.8 | | | | | | | | |
| | 6500K | | 2.6-2.8 | | | | | | | | |

33A 0.2W

| CRI | CCT | Model Name | Vf | Luminus Flux | | | | | | | | |
|-----------------|-------|------------|---------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | ES 90-100 | ET 100-110 | EU 110-120 | EV 120-130 | EW 130-140 | EX 140-150 | EY 150-160 | EZ 160-170 | EA 170-180 |
| 70 150mA 25C | 2700K | PC33N58 V0 | 5.8-6.4 | | | | | | | | | |
| | 3000K | | 5.8-6.4 | | | | | | | | | |
| | 3500K | | 5.8-6.4 | | | | | | | | | |
| | 4000K | | 5.8-6.4 | | | | | | | | | |
| | 5000K | | 5.8-6.4 | | | | | | | | | |
| | 5700K | | 5.8-6.4 | | | | | | | | | |
| | 6500K | | 5.8-6.4 | | | | | | | | | |
| 80 150mA 25C | 2700K | PC33H11 V2 | 5.8-6.4 | | | | | | | | | |
| | 3000K | | 5.8-6.4 | | | | | | | | | |
| | 3500K | | 5.8-6.4 | | | | | | | | | |
| | 4000K | | 5.8-6.4 | | | | | | | | | |
| | 5000K | | 5.8-6.4 | | | | | | | | | |
| | 5700K | | 5.8-6.4 | | | | | | | | | |
| | 6500K | | 5.8-6.4 | | | | | | | | | |
| 90 150mA 25C | 2700K | PC33U06 V3 | 5.8-6.4 | | | | | | | | | |
| | 3000K | | 5.8-6.4 | | | | | | | | | |
| | 3500K | | 5.8-6.4 | | | | | | | | | |
| | 4000K | | 5.8-6.4 | | | | | | | | | |
| | 5000K | | 5.8-6.4 | | | | | | | | | |
| | 5700K | | 5.8-6.4 | | | | | | | | | |
| | 6500K | | 5.8-6.4 | | | | | | | | | |

Low-Mid Power Series

3030EMC



33B



3.2 × 3.0 × 0.67 (mm)

- Best reliability performance
- High reliability, L90>36,000hrs@105oC, 1W
- High efficacy
- Simple design to pair with optical lens

33B 1W

| CRI | CCT | Model Name | Vf | Luminus Flux | | | | | | |
|-----------------|-------|------------|---------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | ES 90-100 | ET 100-110 | EU 110-120 | EV 120-130 | EW 130-140 | EX 140-150 | EY 150-160 |
| 95 150mA 25C | 2700K | PC33V67 V0 | 5.8-6.4 | | | | | | | |
| | 3000K | | 5.8-6.4 | | | | | | | |
| | 3500K | | 5.8-6.4 | | | | | | | |
| | 4000K | | 5.8-6.4 | | | | | | | |
| | 5000K | | 5.8-6.4 | | | | | | | |
| | 5700K | | 5.8-6.4 | | | | | | | |
| | 6500K | | 5.8-6.4 | | | | | | | |

33B 1W

| CRI | CCT | Model Name | Vf | Luminus Flux | | | | |
|--|-------|------------|---------|--------------|-------------|--------------|---------------|---------------|
| | | | | EQ 70-80 | ER 80-90 | ES 90-100 | ET 100-110 | EU 110-120 |
| NEW 95 150mA 25C low blue light | 2700K | PC33V67 V1 | 5.8-6.6 | | | | | |
| | 3000K | | 5.8-6.6 | | | | | |
| | 3500K | | 5.8-6.6 | | | | | |
| | 4000K | | 5.8-6.6 | | | | | |
| | 5000K | | 5.8-6.6 | | | | | |
| | 5700K | | 5.8-6.6 | | | | | |
| | 6500K | | 5.8-6.6 | | | | | |

Low-Mid Power Series

2835 0.2~0.5W



3.5 X 2.8 X 0.65 (mm)

- LM-80 certified LED
- Low thermal resistance
- The most cost competitive solution

0.2W 2835

| CRI | CCT | Model Name | Vf | Luminus Flux | | | | | | | | |
|----------------|-------|------------|---------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| | | | | TB 18-20 | TC 20-22 | TD 22-24 | TE 24-26 | TF 26-28 | TG 28-30 | TH 30-32 | TI 32-34 | |
| 80 60mA 25C | 2700K | PC35H12 V0 | 2.8~3.2 | | | | | | | | | |
| | 3000K | | 2.8~3.2 | | | | | | | | | |
| | 3500K | | 2.8~3.2 | | | | | | | | | |
| | 4000K | | 2.8~3.2 | | | | | | | | | |
| | 5000K | | 2.8~3.2 | | | | | | | | | |
| | 5700K | | 2.8~3.2 | | | | | | | | | |
| | 6500K | | 2.8~3.2 | | | | | | | | | |
| | 2700K | PC35H12 V1 | 2.8~3.2 | | | | | | | | | |
| | 3000K | | 2.8~3.2 | | | | | | | | | |
| | 3500K | | 2.8~3.2 | | | | | | | | | |
| | 4000K | | 2.8~3.2 | | | | | | | | | |
| | 5000K | | 2.8~3.2 | | | | | | | | | |
| | 5700K | | 2.8~3.2 | | | | | | | | | |
| | 6500K | | 2.8~3.2 | | | | | | | | | |
| 90 60mA 25C | 2700K | PC35U50 V0 | 2.8~3.2 | | | | | | | | | |
| | 3000K | | 2.8~3.2 | | | | | | | | | |
| | 3500K | | 2.8~3.2 | | | | | | | | | |
| | 4000K | | 2.8~3.2 | | | | | | | | | |
| | 5000K | | 2.8~3.2 | | | | | | | | | |
| | 5700K | | 2.8~3.2 | | | | | | | | | |
| | 6500K | | 2.8~3.2 | | | | | | | | | |
| | 2700K | PC35U50 V1 | 2.8~3.2 | | | | | | | | | |
| | 3000K | | 2.8~3.2 | | | | | | | | | |
| | 3500K | | 2.8~3.2 | | | | | | | | | |
| | 4000K | | 2.8~3.2 | | | | | | | | | |
| | 5000K | | 2.8~3.2 | | | | | | | | | |
| | 5700K | | 2.8~3.2 | | | | | | | | | |
| | 6500K | | 2.8~3.2 | | | | | | | | | |

Low-Mid Power Series

2835 0.2~0.5W



3.5 X 2.8 X 0.65 (mm)

- LM-80 certified LED
- Low thermal resistance
- The most cost competitive solution

0.5W 2835

| CRI | CCT | Model Name | Vf | Luminus Flux | | | |
|-----------------|-------|------------|---------|--------------|-------------|-------------|-------------|
| | | | | VM 55-60 | VN 60-66 | VO 66-72 | VP 72-78 |
| 80 150mA 25C | 2700K | PC35H11 V0 | 2.9-3.4 | | | | |
| | 3000K | | 2.9-3.4 | | | | |
| | 3500K | | 2.9-3.4 | | | | |
| | 4000K | | 2.9-3.4 | | | | |
| | 5000K | | 2.9-3.4 | | | | |
| | 5700K | | 2.9-3.4 | | | | |
| | 6500K | | 2.9-3.4 | | | | |
| | 2700K | PC35H11 V1 | 2.9-3.4 | | | | |
| | 3000K | | 2.9-3.4 | | | | |
| | 3500K | | 2.9-3.4 | | | | |
| | 4000K | | 2.9-3.4 | | | | |
| | 5000K | | 2.9-3.4 | | | | |
| | 5700K | | 2.9-3.4 | | | | |
| | 6500K | | 2.9-3.4 | | | | |

| CRI | CCT | Model Name | Vf | Luminus Flux | | | | | | | | | | |
|----------------|---------|------------|---------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| | | | | TD 22-24 | TE 24-26 | TF 26-28 | TG 28-30 | TH 30-32 | TI 32-34 | TJ 34-36 | TK 36-38 | TL 38-40 | TM 40-42 | |
| 80 65mA 25C | 2700K | PC35H11 V3 | 2.7-2.9 | | | | | | | | | | | |
| | 3000K | | 2.7-2.9 | | | | | | | | | | | |
| | 3500K | | 2.7-2.9 | | | | | | | | | | | |
| | 4000K | | 2.7-2.9 | | | | | | | | | | | |
| | 5000K | | 2.7-2.9 | | | | | | | | | | | |
| | 5700K | | 2.7-2.9 | | | | | | | | | | | |
| | 6500K | 2.7-2.9 | | | | | | | | | | | | |
| | 2700K | PC35H11 V4 | 2.6-2.8 | | | | | | | | | | | |
| | 3000K | | 2.6-2.8 | | | | | | | | | | | |
| | 3500K | | 2.6-2.8 | | | | | | | | | | | |
| | 4000K | | 2.6-2.8 | | | | | | | | | | | |
| | 5000K | | 2.6-2.8 | | | | | | | | | | | |
| | 5700K | | 2.6-2.8 | | | | | | | | | | | |
| | 6500K | 2.6-2.8 | | | | | | | | | | | | |
| | 2700K | PC35H11 V5 | 2.7-2.9 | | | | | | | | | | | |
| | 3000K | | 2.7-2.9 | | | | | | | | | | | |
| | 3500K | | 2.7-2.9 | | | | | | | | | | | |
| | 4000K | | 2.7-2.9 | | | | | | | | | | | |
| | 5000K | | 2.7-2.9 | | | | | | | | | | | |
| | 5700K | | 2.7-2.9 | | | | | | | | | | | |
| | 6500K | 2.7-2.9 | | | | | | | | | | | | |
| | 2700K | PC35H11 V7 | 2.6-2.8 | | | | | | | | | | | |
| | 3000K | | 2.6-2.8 | | | | | | | | | | | |
| | 3500K | | 2.6-2.8 | | | | | | | | | | | |
| 4000K | 2.6-2.8 | | | | | | | | | | | | | |
| 5000K | 2.6-2.8 | | | | | | | | | | | | | |
| 5700K | 2.6-2.8 | | | | | | | | | | | | | |
| 6500K | 2.6-2.8 | | | | | | | | | | | | | |

2835 0.2~0.5W

0.5W 2835

| CRI | CCT | Model Name | Vf | Luminous Flux | | | | | | | | | | |
|----------------|------------|------------|---------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| | | | | TD 22-24 | TE 24-26 | TF 26-28 | TG 28-30 | TH 30-32 | TI 32-34 | TJ 34-36 | TK 36-38 | TL 38-40 | TM 40-42 | |
| 90 65mA 25C | 2700K | PC35U16 V0 | 2.8-3.1 | | | | | | | | | | | |
| | 3000K | | 2.8-3.1 | | | | | | | | | | | |
| | 3500K | | 2.8-3.1 | | | | | | | | | | | |
| | 4000K | | 2.8-3.1 | | | | | | | | | | | |
| | 5000K | | 2.8-3.1 | | | | | | | | | | | |
| | 5700K | | 2.8-3.1 | | | | | | | | | | | |
| | 6500K | 2.8-3.1 | | | | | | | | | | | | |
| | 2700K | PC35U16 V1 | 2.8-3.1 | | | | | | | | | | | |
| | 3000K | | 2.8-3.1 | | | | | | | | | | | |
| | 3500K | | 2.8-3.1 | | | | | | | | | | | |
| | 4000K | | 2.8-3.1 | | | | | | | | | | | |
| | 5000K | | 2.8-3.1 | | | | | | | | | | | |
| | 5700K | | 2.8-3.1 | | | | | | | | | | | |
| | 6500K | 2.8-3.1 | | | | | | | | | | | | |
| | 2700K | PC35U16 V3 | 2.7-2.9 | | | | | | | | | | | |
| | 3000K | | 2.7-2.9 | | | | | | | | | | | |
| | 3500K | | 2.7-2.9 | | | | | | | | | | | |
| | 4000K | | 2.7-2.9 | | | | | | | | | | | |
| | 5000K | | 2.7-2.9 | | | | | | | | | | | |
| | 5700K | | 2.7-2.9 | | | | | | | | | | | |
| | 6500K | 2.7-2.9 | | | | | | | | | | | | |
| | 2700K | PC35U16 V4 | 2.6-2.8 | | | | | | | | | | | |
| | 3000K | | 2.6-2.8 | | | | | | | | | | | |
| | 3500K | | 2.6-2.8 | | | | | | | | | | | |
| | 4000K | | 2.6-2.8 | | | | | | | | | | | |
| | 5000K | | 2.6-2.8 | | | | | | | | | | | |
| | 5700K | | 2.6-2.8 | | | | | | | | | | | |
| | 6500K | 2.6-2.8 | | | | | | | | | | | | |
| | 2700K | PC35U16 V5 | 2.7-2.9 | | | | | | | | | | | |
| | 3000K | | 2.7-2.9 | | | | | | | | | | | |
| 3500K | 2.7-2.9 | | | | | | | | | | | | | |
| 4000K | 2.7-2.9 | | | | | | | | | | | | | |
| 5000K | 2.7-2.9 | | | | | | | | | | | | | |
| 5700K | 2.7-2.9 | | | | | | | | | | | | | |
| 6500K | 2.7-2.9 | | | | | | | | | | | | | |
| 2700K | PC35U16 V7 | 2.6-2.8 | | | | | | | | | | | | |
| 3000K | | 2.6-2.8 | | | | | | | | | | | | |
| 3500K | | 2.6-2.8 | | | | | | | | | | | | |
| 4000K | | 2.6-2.8 | | | | | | | | | | | | |
| 5000K | | 2.6-2.8 | | | | | | | | | | | | |
| 5700K | | 2.6-2.8 | | | | | | | | | | | | |
| 6500K | 2.6-2.8 | | | | | | | | | | | | | |

2835 0.2~0.5W

0.5W 2835

| CRI | CCT | Model Name | Vf | Luminous Flux | | | | | | | | | |
|---|------------------|------------------|---------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | | TD 22-24 | TE 24-26 | TF 26-28 | TG 28-30 | TH 30-32 | TI 32-34 | TJ 34-36 | TK 36-38 | TL 38-40 | TM 40-42 |
| 90 65mA 25C KSF solution | 2700K | PC35U16 V1 (KSF) | 2.8-3.1 | | | | | | | | | | |
| | 3000K | | 2.8-3.1 | | | | | | | | | | |
| | 3500K | | 2.8-3.1 | | | | | | | | | | |
| | 4000K | | 2.8-3.1 | | | | | | | | | | |
| | 5000K | | 2.8-3.1 | | | | | | | | | | |
| | 5700K | | 2.8-3.1 | | | | | | | | | | |
| | 6500K | 2.8-3.1 | | | | | | | | | | | |
| | 2700K | PC35U16 V3 (KSF) | 2.7-2.9 | | | | | | | | | | |
| | 3000K | | 2.7-2.9 | | | | | | | | | | |
| | 3500K | | 2.7-2.9 | | | | | | | | | | |
| | 4000K | | 2.7-2.9 | | | | | | | | | | |
| | 5000K | | 2.7-2.9 | | | | | | | | | | |
| | 5700K | | 2.7-2.9 | | | | | | | | | | |
| | 6500K | 2.7-2.9 | | | | | | | | | | | |
| | 2700K | PC35U16 V4 (KSF) | 2.6-2.8 | | | | | | | | | | |
| | 3000K | | 2.6-2.8 | | | | | | | | | | |
| | 3500K | | 2.6-2.8 | | | | | | | | | | |
| | 4000K | | 2.6-2.8 | | | | | | | | | | |
| | 5000K | | 2.6-2.8 | | | | | | | | | | |
| | 5700K | | 2.6-2.8 | | | | | | | | | | |
| | 6500K | 2.6-2.8 | | | | | | | | | | | |
| 2700K | PC35U16 V5 (KSF) | 2.7-2.9 | | | | | | | | | | | |
| 3000K | | 2.7-2.9 | | | | | | | | | | | |
| 3500K | | 2.7-2.9 | | | | | | | | | | | |
| 4000K | | 2.7-2.9 | | | | | | | | | | | |
| 5000K | | 2.7-2.9 | | | | | | | | | | | |
| 5700K | | 2.7-2.9 | | | | | | | | | | | |
| 6500K | 2.7-2.9 | | | | | | | | | | | | |
| 2700K | PC35U16 V7 (KSF) | 2.6-2.8 | | | | | | | | | | | |
| 3000K | | 2.6-2.8 | | | | | | | | | | | |
| 3500K | | 2.6-2.8 | | | | | | | | | | | |
| 4000K | | 2.6-2.8 | | | | | | | | | | | |
| 5000K | | 2.6-2.8 | | | | | | | | | | | |
| 5700K | | 2.6-2.8 | | | | | | | | | | | |
| 6500K | 2.6-2.8 | | | | | | | | | | | | |
| NEW 95 65mA 25C High CRI solution | 2700K | PC35U16 V6 | 2.7-3.0 | | | | | | | | | | |
| | 3000K | | 2.7-3.0 | | | | | | | | | | |
| | 3500K | | 2.7-3.0 | | | | | | | | | | |
| | 4000K | | 2.7-3.0 | | | | | | | | | | |
| | 5000K | | 2.7-3.0 | | | | | | | | | | |
| | 5700K | | 2.7-3.0 | | | | | | | | | | |
| | 6500K | 2.7-3.0 | | | | | | | | | | | |
| | 2700K | PC35V52 V1 | 2.7-3.0 | | | | | | | | | | |
| | 3000K | | 2.7-3.0 | | | | | | | | | | |
| | 3500K | | 2.7-3.0 | | | | | | | | | | |
| | 4000K | | 2.7-3.0 | | | | | | | | | | |
| | 5000K | | 2.7-3.0 | | | | | | | | | | |
| | 5700K | | 2.7-3.0 | | | | | | | | | | |
| | 6500K | | 2.7-3.0 | | | | | | | | | | |
| 6500K | 2.7-3.0 | | | | | | | | | | | | |

High Power Series

- 2835
- 55B 5050EMC HV

High Power Series

2835 1W



3.5 X 2.8 X 0.65 (mm)

- Best suits linear driver application
- Highest Lumen/\$ for bulbs
- LM-80 certified >50Khrs @105°C
- The most cost competitive solution

6V 1W 2835

| CRI | CCT | Model Name | Vf | Luminous Flux(lm) | | | | | |
|-----------------|-------|------------|---------|-------------------|---------------|---------------|---------------|---------------|---------------|
| | | | | VV 120-130 | VW 130-140 | VX 140-150 | VY 150-160 | VZ 160-170 | VA 170-180 |
| 80 150mA 25C | 2700K | PC35H15 V2 | 5.7-6.9 | | | | | | |
| | 3000K | | 5.7-6.9 | | | | | | |
| | 3500K | | 5.7-6.9 | | | | | | |
| | 4000K | | 5.7-6.9 | | | | | | |
| | 5000K | | 5.7-6.9 | | | | | | |
| | 5700K | | 5.7-6.9 | | | | | | |
| | 6500K | | 5.7-6.9 | | | | | | |

| CRI | CCT | Model Name | Vf | Luminous Flux(lm) | | | | | |
|-----------------|-------|------------|---------|-------------------|---------------|---------------|---------------|---------------|---------------|
| | | | | EU 110-120 | EV 120-130 | EW 130-140 | EX 140-150 | EY 150-160 | EZ 160-170 |
| 80 150mA 25C | 2700K | PC35H15 V0 | 5.8-6.4 | | | | | | |
| | 3000K | | 5.8-6.4 | | | | | | |
| | 3500K | | 5.8-6.4 | | | | | | |
| | 4000K | | 5.8-6.4 | | | | | | |
| | 5000K | | 5.8-6.4 | | | | | | |
| | 5700K | | 5.8-6.4 | | | | | | |
| | 6500K | | 5.8-6.4 | | | | | | |
| 90 150mA 25C | 2700K | PC35U42 V0 | 5.8-6.4 | | | | | | |
| | 3000K | | 5.8-6.4 | | | | | | |
| | 3500K | | 5.8-6.4 | | | | | | |
| | 4000K | | 5.8-6.4 | | | | | | |
| | 5000K | | 5.8-6.4 | | | | | | |
| | 5700K | | 5.8-6.4 | | | | | | |
| | 6500K | | 5.8-6.4 | | | | | | |

9V 1W 2835

| CRI | CCT | Model Name | Vf | Luminous Flux(lm) | | | | | | | | | | |
|-----------------|-------|------------|---------|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
| | | | | VS 100-105 | VT 105-110 | UA 110-115 | UB 115-120 | VV 120-130 | VW 130-140 | VX 140-150 | VY 150-160 | VZ 160-170 | VA 170-180 | |
| 80 100mA 25C | 2700K | PC35H13 V0 | 8.7-9.6 | | | | | | | | | | | |
| | 3000K | | 8.7-9.6 | | | | | | | | | | | |
| | 3500K | | 8.7-9.6 | | | | | | | | | | | |
| | 4000K | | 8.7-9.6 | | | | | | | | | | | |
| | 5000K | | 8.7-9.6 | | | | | | | | | | | |
| | 5700K | | 8.7-9.6 | | | | | | | | | | | |
| | 6500K | | 8.7-9.6 | | | | | | | | | | | |
| 80 100mA 25C | 2700K | PC35H13 V1 | 8.7-9.6 | | | | | | | | | | | |
| | 3000K | | 8.7-9.6 | | | | | | | | | | | |
| | 3500K | | 8.7-9.6 | | | | | | | | | | | |
| | 4000K | | 8.7-9.6 | | | | | | | | | | | |
| | 5000K | | 8.7-9.6 | | | | | | | | | | | |
| | 5700K | | 8.7-9.6 | | | | | | | | | | | |
| | 6500K | | 8.7-9.6 | | | | | | | | | | | |
| 80 100mA 25C | 2700K | PC35H13 V2 | 8.7-9.3 | | | | | | | | | | | |
| | 3000K | | 8.7-9.3 | | | | | | | | | | | |
| | 3500K | | 8.7-9.3 | | | | | | | | | | | |
| | 4000K | | 8.7-9.3 | | | | | | | | | | | |
| | 5000K | | 8.7-9.3 | | | | | | | | | | | |
| | 5700K | | 8.7-9.3 | | | | | | | | | | | |
| | 6500K | | 8.7-9.3 | | | | | | | | | | | |
| 80 100mA 25C | 2700K | PC35H13 V3 | 8.4-9.0 | | | | | | | | | | | |
| | 3000K | | 8.4-9.0 | | | | | | | | | | | |
| | 3500K | | 8.4-9.0 | | | | | | | | | | | |
| | 4000K | | 8.4-9.0 | | | | | | | | | | | |
| | 5000K | | 8.4-9.0 | | | | | | | | | | | |
| | 5700K | | 8.4-9.0 | | | | | | | | | | | |
| | 6500K | | 8.4-9.0 | | | | | | | | | | | |
| 80 100mA 25C | 2700K | PC35H13 V4 | 8.4-9.0 | | | | | | | | | | | |
| | 3000K | | 8.4-9.0 | | | | | | | | | | | |
| | 3500K | | 8.4-9.0 | | | | | | | | | | | |
| | 4000K | | 8.4-9.0 | | | | | | | | | | | |
| | 5000K | | 8.4-9.0 | | | | | | | | | | | |
| | 5700K | | 8.4-9.0 | | | | | | | | | | | |
| | 6500K | | 8.4-9.0 | | | | | | | | | | | |
| 80 100mA 25C | 2700K | PC35H13 V5 | 8.4-9.0 | | | | | | | | | | | |
| | 3000K | | 8.4-9.0 | | | | | | | | | | | |
| | 3500K | | 8.4-9.0 | | | | | | | | | | | |
| | 4000K | | 8.4-9.0 | | | | | | | | | | | |
| | 5000K | | 8.4-9.0 | | | | | | | | | | | |
| | 5700K | | 8.4-9.0 | | | | | | | | | | | |
| | 6500K | | 8.4-9.0 | | | | | | | | | | | |
| 90 100mA 25C | 2700K | PC35U27 V1 | 8.7-9.6 | | | | | | | | | | | |
| | 3000K | | 8.7-9.6 | | | | | | | | | | | |
| | 3500K | | 8.7-9.6 | | | | | | | | | | | |
| | 4000K | | 8.7-9.6 | | | | | | | | | | | |
| | 5000K | | 8.7-9.6 | | | | | | | | | | | |
| | 5700K | | 8.7-9.6 | | | | | | | | | | | |
| | 6500K | | 8.7-9.6 | | | | | | | | | | | |
| 90 100mA 25C | 2700K | PC35U27 V2 | 8.7-9.3 | | | | | | | | | | | |
| | 3000K | | 8.7-9.3 | | | | | | | | | | | |
| | 3500K | | 8.7-9.3 | | | | | | | | | | | |
| | 4000K | | 8.7-9.3 | | | | | | | | | | | |
| | 5000K | | 8.7-9.3 | | | | | | | | | | | |
| | 5700K | | 8.7-9.3 | | | | | | | | | | | |
| | 6500K | | 8.7-9.3 | | | | | | | | | | | |
| 90 100mA 25C | 2700K | PC35U27 V3 | 8.4-9.0 | | | | | | | | | | | |
| | 3000K | | 8.4-9.0 | | | | | | | | | | | |
| | 3500K | | 8.4-9.0 | | | | | | | | | | | |
| | 4000K | | 8.4-9.0 | | | | | | | | | | | |
| | 5000K | | 8.4-9.0 | | | | | | | | | | | |
| | 5700K | | 8.4-9.0 | | | | | | | | | | | |
| | 6500K | | 8.4-9.0 | | | | | | | | | | | |
| 90 100mA 25C | 2700K | PC35U27 V4 | 8.4-9.0 | | | | | | | | | | | |
| | 3000K | | 8.4-9.0 | | | | | | | | | | | |
| | 3500K | | 8.4-9.0 | | | | | | | | | | | |
| | 4000K | | 8.4-9.0 | | | | | | | | | | | |
| | 5000K | | 8.4-9.0 | | | | | | | | | | | |
| | 5700K | | 8.4-9.0 | | | | | | | | | | | |
| | 6500K | | 8.4-9.0 | | | | | | | | | | | |
| 90 100mA 25C | 2700K | PC35U27 V5 | 8.4-9.0 | | | | | | | | | | | |
| | 3000K | | 8.4-9.0 | | | | | | | | | | | |
| | 3500K | | 8.4-9.0 | | | | | | | | | | | |
| | 4000K | | 8.4-9.0 | | | | | | | | | | | |
| | 5000K | | 8.4-9.0 | | | | | | | | | | | |
| | 5700K | | 8.4-9.0 | | | | | | | | | | | |
| | 6500K | | 8.4-9.0 | | | | | | | | | | | |

2835 1W

18V 1W 2835

| CRI | CCT | Model Name | Vf | Luminous Flux(lm) | | | | | | | | |
|----------------|-------|------------|-----------|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | VT 105-110 | UA 110-115 | UB 115-120 | VV 120-130 | VW 130-140 | VX 140-150 | VY 150-160 | VZ 160-170 | VA 170-180 |
| 80 50mA 25C | 2700K | PC35H38 V0 | 16.0-20.0 | | | | | | | | | |
| | 3000K | | 16.0-20.0 | | | | | | | | | |
| | 3500K | | 16.0-20.0 | | | | | | | | | |
| | 4000K | | 16.0-20.0 | | | | | | | | | |
| | 5000K | | 16.0-20.0 | | | | | | | | | |
| | 5700K | | 16.0-20.0 | | | | | | | | | |
| 80 50mA 25C | 2700K | PC35H38 V1 | 16.0-20.0 | | | | | | | | | |
| | 3000K | | 16.0-20.0 | | | | | | | | | |
| | 3500K | | 16.0-20.0 | | | | | | | | | |
| | 4000K | | 16.0-20.0 | | | | | | | | | |
| | 5000K | | 16.0-20.0 | | | | | | | | | |
| | 5700K | | 16.0-20.0 | | | | | | | | | |
| 90 50mA 25C | 2700K | PC35U41 V0 | 16.0-20.0 | | | | | | | | | |
| | 3000K | | 16.0-20.0 | | | | | | | | | |
| | 3500K | | 16.0-20.0 | | | | | | | | | |
| | 4000K | | 16.0-20.0 | | | | | | | | | |
| | 5000K | | 16.0-20.0 | | | | | | | | | |
| | 5700K | | 16.0-20.0 | | | | | | | | | |
| 90 50mA 25C | 2700K | PC35U41 V1 | 16.0-20.0 | | | | | | | | | |
| | 3000K | | 16.0-20.0 | | | | | | | | | |
| | 3500K | | 16.0-20.0 | | | | | | | | | |
| | 4000K | | 16.0-20.0 | | | | | | | | | |
| | 5000K | | 16.0-20.0 | | | | | | | | | |
| | 5700K | | 16.0-20.0 | | | | | | | | | |

36V 1W 2835

| CRI | CCT | Model Name | Vf | Luminous Flux | | | | | |
|----------------|-------|------------|-------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | VV 120-130 | VW 130-140 | VX 140-150 | VY 150-160 | VZ 160-170 | WA 170-180 |
| 80 30mA 25C | 2700K | PC35H39 V0 | 36-39 | | | | | | |
| | 3000K | | 36-39 | | | | | | |
| | 3500K | | 36-39 | | | | | | |
| | 4000K | | 36-39 | | | | | | |
| | 5000K | | 36-39 | | | | | | |
| | 5700K | | 36-39 | | | | | | |
| | 6500K | | 36-39 | | | | | | |

High Power Series

55B 5050EMC HV



5X5X0.7 (mm)

- High lumen density, easy optical lens design
- High Efficacy 230lm/W @1W CRI70
- High reliability L90>50K

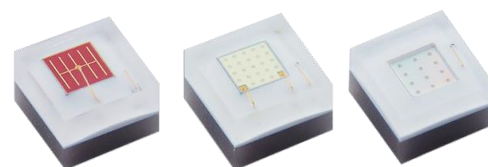
High efficacy version

| CRI | CCT | Model Name | Vf | Luminus Flux(lm) | | | | | | | | | | | |
|-----------------|-------|----------------------|---------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | WX 540-560 | WY 560-580 | WZ 580-600 | WA 600-620 | WB 620-640 | WC 640-660 | WD 660-680 | WE 680-700 | WF 700-720 | WG 720-740 | WH 740-760 | WI 760-780 |
| 70 640mA 25C | 2700K | PC55N24 V3 HE 6V | 5.8-6.4 | | | | | | | | | | | | |
| | 3000K | | 5.8-6.4 | | | | | | | | | | | | |
| | 3500K | | 5.8-6.4 | | | | | | | | | | | | |
| | 4000K | | 5.8-6.4 | | | | | | | | | | | | |
| | 5000K | | 5.8-6.4 | | | | | | | | | | | | |
| | 5700K | | 5.8-6.4 | | | | | | | | | | | | |
| 80 640mA 25C | 2700K | PC55H26 V3 HE 6V | 5.8-6.4 | | | | | | | | | | | | |
| | 3000K | | 5.8-6.4 | | | | | | | | | | | | |
| | 3500K | | 5.8-6.4 | | | | | | | | | | | | |
| | 4000K | | 5.8-6.4 | | | | | | | | | | | | |
| | 5000K | | 5.8-6.4 | | | | | | | | | | | | |
| | 5700K | | 5.8-6.4 | | | | | | | | | | | | |
| 90 640mA 25C | 2700K | PC55U18 V3 HE 6V | 5.8-6.4 | | | | | | | | | | | | |
| | 3000K | | 5.8-6.4 | | | | | | | | | | | | |
| | 3500K | | 5.8-6.4 | | | | | | | | | | | | |
| | 4000K | | 5.8-6.4 | | | | | | | | | | | | |
| | 5000K | | 5.8-6.4 | | | | | | | | | | | | |
| | 5700K | | 5.8-6.4 | | | | | | | | | | | | |
| 70 160mA 25C | 2700K | PC55N24 V3 HE 24V | 22-26 | | | | | | | | | | | | |
| | 3000K | | 22-26 | | | | | | | | | | | | |
| | 3500K | | 22-26 | | | | | | | | | | | | |
| | 4000K | | 22-26 | | | | | | | | | | | | |
| | 5000K | | 22-26 | | | | | | | | | | | | |
| | 5700K | | 22-26 | | | | | | | | | | | | |
| 80 160mA 25C | 2700K | PC55H26 V3 HE 24V | 22-26 | | | | | | | | | | | | |
| | 3000K | | 22-26 | | | | | | | | | | | | |
| | 3500K | | 22-26 | | | | | | | | | | | | |
| | 4000K | | 22-26 | | | | | | | | | | | | |
| | 5000K | | 22-26 | | | | | | | | | | | | |
| | 5700K | | 22-26 | | | | | | | | | | | | |
| 90 160mA 25C | 2700K | PC55U18 V3 HE 24V | 22-26 | | | | | | | | | | | | |
| | 3000K | | 22-26 | | | | | | | | | | | | |
| | 3500K | | 22-26 | | | | | | | | | | | | |
| | 4000K | | 22-26 | | | | | | | | | | | | |
| | 5000K | | 22-26 | | | | | | | | | | | | |
| | 5700K | | 22-26 | | | | | | | | | | | | |

Color Series

- 2020 Color
- 1717 Color
- 3535 Color

2020 Color



2.0 X 2.0 X 0.85 (mm)

- High lumen output in a directional application
- Excellent reliability meeting professional requirement
- For narrow beam angles requirement

Tj=25C

| Model Name | Color | Wd (nm) | Luminous Flux (lm) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|-------------|-------------|--------------------|-----|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| PC20X09.0 | Red | 620-630 | 67 | 72 | 1.8 | 2.6 | 350 |
| | Blue | 470-485 | 39 | 46 | 2.6 | 3.4 | 350 |
| | Royal Blue | 457-470 | 33 | 39 | 2.6 | 3.4 | 350 |
| | Green | 515-540 | 90 | 110 | 2.5 | 3.4 | 350 |
| | Amber | 580-595 | 38 | 47 | 1.8 | 2.6 | 350 |
| | PC Amber | NA | 100 | 102 | 2.6 | 3.4 | 350 |
| | WW CRI80 | 2600K-3700K | 100 | 128 | 2.6 | 3.4 | 350 |
| | NW CRI80 | 3700K-4700K | 110 | 140 | 2.6 | 3.4 | 350 |
| | CW CRI80 | 4700K-7000K | 110 | 140 | 2.6 | 3.4 | 350 |
| CW CRI70 | 4700K-7000K | 115 | 160 | 2.6 | 3.4 | 350 | |

1717 Color



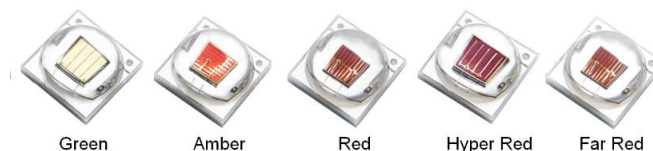
1.7 x 1.7 x 0.3 (mm)

- High lumen output in a directional application
- Excellent reliability meeting professional requirement
- For narrow beam angles requirement

Tj=25C

| Model Name | Color | Wd (nm) | Luminous Flux (lm) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|----------|-------------|--------------------|-----|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| PC17X01.0 | CW CRI70 | 4700K-7000K | 155 | 175 | 2.6 | 3.1 | 350 |
| | PC Red | NA | 50 | 60 | 2.6 | 3.1 | 350 |
| | PC Amber | NA | 110 | 125 | 2.6 | 3.1 | 350 |
| | PC Green | NA | 180 | 200 | 2.6 | 3.1 | 350 |
| | Red | 620-630 | 50 | 60 | 1.8 | 2.6 | 350 |

3535 Color



3.5 x 3.5 x 2.24 (mm)

- Excellent reliability meeting professional requirement
- Standard 3535 foot print for drop-in replacement Designs
- Best thermal solution /High performance
- Superior efficiency PPF/W in horticulture application

T_j=25C

| Model Name | Color | Wd (nm) | Luminous Flux (lm) /Radiant Flux (mW) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|------------|------------|---------------------------------------|---------|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| PEX3X09 V2 | Green | 520-530 | 120 | 150 | 2.4 | 3.2 | 350 |
| | Cyan | 495-505 | 100 | 130 | 2.4 | 3.2 | 350 |
| | Amber | 580-600 | 50 | 70 | 2 | 2.6 | 350 |
| | Red | 615-635 | 60 | 85 | 1.8 | 2.2 | 350 |
| | Hyper Red | 655-665 | 400 mW | 500 mW | 1.8 | 2.2 | 350 |
| | Far Red | 720-740 | 250 mW | 400 mW | 1.9 | 2.6 | 350 |
| | PC Amber | NA | 100 | 130 | 2.6 | 3.2 | 350 |
| | Blue | 465-475 | 45 | 75 | 2.8 | 3.2 | 350 |
| | Royal Blue | 455-460 | 700 mW | 1000 mW | 2.8 | 3.2 | 350 |
| | CW CRI70 | 5000-8050K | 150 | 180 | 2.8 | 3.4 | 350 |



3.5 x 3.5 x 2.24 (mm)

T_j=85C



| Model Name | Color | CCT | Luminous Flux (lm) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|----------|-------|--------------------|-----|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| PEX3N10 V0 | WW CRI80 | 3000K | 250 | 310 | 2.6 | 3.4 | 700 |
| | NW CRI70 | 4000K | 290 | 350 | 2.6 | 3.4 | 700 |
| | CW CRI70 | 5700K | 290 | 350 | 2.6 | 3.4 | 700 |
| | CW CRI70 | 6100K | 290 | 350 | 2.6 | 3.4 | 700 |
| | CW CRI70 | 6500K | 290 | 350 | 2.6 | 3.4 | 700 |

- Horticulture Lighting
- Highbay Industrial
- Downlight



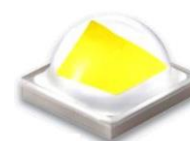
3.45 x 3.45 x 2.34 (mm)

Tj=25C



| Model Name | Color | Wd (nm) | Radiant Flux (mW) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|-----------|---------|-------------------|------|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| PEX3N10 V1 | Hyper Red | 650-670 | 1050 | 1150 | 1.8 | 2.2 | 700 |
| | Blue | 450-475 | 900 | 1110 | 2.8 | 3.2 | 700 |

3535 9W

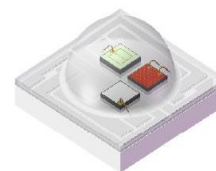


3.45 x 3.45 x 2.33 (mm)

Tj=25C

| Model Name | Color | Wd (nm) | Luminous Flux (lm) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|----------|---------|--------------------|-----|---------------------|-----|----------------------|
| | | | Min | Max | Min | Max | |
| PEX3N10 V2 | CW CRI70 | 6500K | 460 | 520 | 2.7 | 3.1 | 1500 |
| | CW CRI70 | 5700K | 460 | 520 | 2.7 | 3.1 | 1500 |
| | CW CRI70 | 5000K | 460 | 520 | 2.7 | 3.1 | 1500 |
| | NW CRI70 | 4000K | 460 | 520 | 2.7 | 3.1 | 1500 |
| | NW CRI70 | 3500K | 440 | 500 | 2.7 | 3.1 | 1500 |
| | WW CRI70 | 3000K | 440 | 500 | 2.7 | 3.1 | 1500 |
| | WW CRI70 | 2700K | 420 | 480 | 2.7 | 3.1 | 1500 |

- Lead frame package with individual 8 pins
- High sensitivity for red, green and blue light



3.45 x 3.45 x 2.00 (mm)

3535 3in1 RGB

| Model Name | Color | Wd (nm) | Luminous Flux (lm) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|-------|---------|--------------------|-----|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| PEX3X09 V5 | Red | 620-630 | 40 | 60 | 2 | 3 | 350 |
| | Green | 520-525 | 75 | 85 | 2.5 | 3.5 | 350 |
| | Blue | 450-455 | 15 | 20 | 2.5 | 3.5 | 350 |

- Lead frame package with individual 8 pins
- High sensitivity for red, green and blue light



3.45 x 3.45 x 2.00 (mm)

3535 4in1 RGBW

| Model Name | Color | Wd (nm) | Luminous Flux (lm) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|---------|---------|--------------------|-----|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| PEX3X09 V6 | Red | 620-630 | 40 | 60 | 2 | 3 | 350 |
| | Green | 520-525 | 75 | 85 | 2.5 | 3.5 | 350 |
| | Blue | 450-455 | 15 | 20 | 2.5 | 3.5 | 350 |
| | CW Ra70 | 6500K | 60 | 80 | 2.5 | 3.5 | 350 |



Multi – Color LED

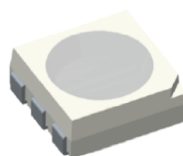
- 5050 RGB in 1
- 5050 RGBW in 1
- 3030 Color
- 1717 Color
- 3535 Color
- 3535 9W

Multi – Color LED

5050 RGB in 1



- Integrated mix color solution
- Lead frame package with individual 6 pins
- High sensitivity for red, green and blue light



5.4 × 5.0 × 1.55 (mm)

5.4 X 5.0 X1.05 (mm)

T_j=25C

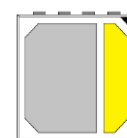
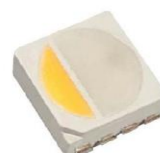
| Model Name | Color | Wd (nm) | Luminous Flux (mcd) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|----------|-------------|---------------------|------|---------------------|-----|----------------------|
| | | | Min | Max | Min | Max | |
| PC50X03.V1 | RGB IN 1 | R : 620~630 | 530 | 1200 | 1.8 | 2.4 | 20 |
| | | G : 525~535 | 1200 | 1800 | 2.8 | 3.3 | 20 |
| | | B : 450~465 | 230 | 530 | 2.8 | 3.3 | 20 |

| Model Name | Color | Wd (nm) | Luminous Flux (lm) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|----------|-------------|--------------------|-----|---------------------|-----|----------------------|
| | | | Min | Max | Min | Max | |
| PC50X01 V3 | RGB IN 1 | R : 619~625 | 19 | 26 | 1.8 | 2.6 | 150 |
| | | G : 520~530 | 37 | 45 | 2.8 | 3.6 | 150 |
| | | B : 465~475 | 10 | 16 | 2.8 | 3.6 | 150 |

5050 RGBW in 1



- Integrated color mixing solution
- Lead frame package with 4 individual channels
- Covering 0.2-1W solution



5.35 X 5.0 X1.55 (mm)

5.4 x 5.0 x 1.05 (mm)

T_j=25C

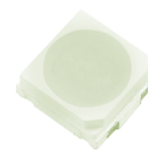
| Model Name | Color | Wd (nm) | Luminous Flux (mcd) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|-----------|-------------|---------------------|--------|---------------------|------|----------------------|
| | | | Min | Max | Min | Max | |
| PC50X02 V1 | RGBW IN 1 | R : 618-623 | 700 | 1000 | 2.00 | 2.30 | 20 |
| | | G : 521-526 | 1800 | 2400 | 2.95 | 3.25 | 20 |
| | | B : 467-472 | 350 | 650 | 2.85 | 3.25 | 20 |
| | | Ra80 4000K | 6.5 lm | 9.5 lm | 2.75 | 3.05 | 20 |

| Model Name | Color | Wd (nm) | Luminous Flux (lm) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|-----------|-------------|--------------------|-----|---------------------|------|----------------------|
| | | | Min | Max | Min | Max | |
| PC50X02 V2 | RGBW IN 1 | R : 615-630 | 18 | 27 | 1.80 | 2.60 | 150 |
| | | G : 520-530 | 35 | 50 | 2.80 | 3.60 | 150 |
| | | B : 465-475 | 8 | 16 | 2.80 | 3.60 | 150 |
| | | Ra80 4000K | 50 | 67 | 2.80 | 3.60 | 150 |

Multi – Color LED

3030 Color

- Excellent reliability meeting professional requirement
- Standard 3030 foot print for drop-in replacement Designs
- Best thermal solution / JEDEC Level 1



3.2 x 3.0 x 0.6 (mm)

T_j=25C

| Model Name | Color | Wd & Wp(nm) | Luminous Flux (lm)/ Radiant Flux (mW) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|------------|-------------|--|--------|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| PC33X50 V0 | Red | 615-630 | 16 | 23 | 1.8 | 2.6 | 150 |
| | Green | 522.5-535 | 50 | 62 | 2.8 | 3.6 | 150 |
| | Blue | 457-467 | 9 | 12 | 2.8 | 3.6 | 150 |
| | Royal Blue | 450-457 | 190 mW | 250 mW | 2.8 | 3.6 | 150 |
| | Hyper Red | 650-670 | 130 mW | 145 mW | 1.8 | 2.6 | 150 |
| | Far Red | 715-745 | 70 mW | 85 mW | 1.8 | 2.6 | 150 |
| | Amber | 580-595 | 14 | 20 | 1.8 | 2.6 | 150 |
| | Orange | 605-620 | 14 | 20 | 1.8 | 2.6 | 150 |

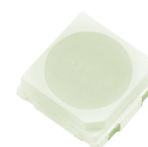


- CleanRoom Yellow (PC Amber) 

3.2 x 3.0 x 0.67 (mm)

T_j=25C

| Model Name | Color | Wd | Luminous Flux (lm)/ Radiant Flux (mW) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|----------|----|--|-----|---------------------|-----|----------------------|
| | | | Min | Max | Min | Max | |
| PC33X50 V1 | PC Amber | NA | 58 | 84 | 2.8 | 3.4 | 150 |



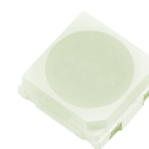
- Phosphor Coating Color Led (3V) 

3.0 x 3.0 x 0.62 (mm)

T_j=25C


| Model Name | Color | Wd | Luminous Flux (lm)/ Radiant Flux (mW) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|----------|----|--|-----|---------------------|-----|----------------------|
| | | | Min | Max | Min | Max | |
| PC33X50 V2 | PC Amber | NA | 46 | 58 | 2.8 | 3.4 | 150 |
| | PC Red | NA | 14 | 18 | 2.8 | 3.4 | 150 |

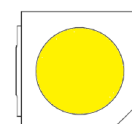
- Phosphor Cating Color Led (6V) 

T_j=25C

3.0 x 3.0 x 0.62 (mm)

| Model Name | Color | Wd | Luminous Flux (lm)/ Radiant Flux (mW) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|----------|----|--|-----|---------------------|-----|----------------------|
| | | | Min | Max | Min | Max | |
| PC33X50 V3 | PC Amber | NA | 46 | 58 | 6.0 | 6.6 | 75 |
| | PC Red | NA | 12 | 18 | 6.0 | 6.6 | 75 |

- Phosphor Cating Color Led (3V) 
- high structural strength 0.8T

T_j=25C

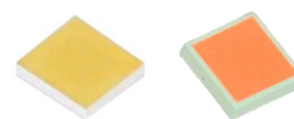
3.70 x 3.5 x 0.8 (mm)

| Model Name | Color | Wd | Luminous Flux (lm)/ Radiant Flux (mW) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|--------------------|----|--|-----|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| PC33X50 V4 | PC Amber | NA | 50 | 67 | 2.8 | 3.4 | 150 |
| | PC Red | NA | 12 | 20 | 2.8 | 3.4 | 150 |
| | Ra80 4000K & 5000K | NA | 67 | 90 | 2.8 | 3.4 | 150 |

Multi – Color LED

1717 Color

- High lumen output in a directional application
- Excellent reliability meeting professional requirement
- For narrow beam angles requirement



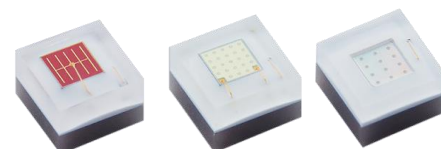
1.7 x 1.7 x 0.3 (mm)

T_j=25C

| Model Name | Color | Wd (nm) | Luminous Flux (lm) | | Forward Voltage (V) | | Forward Current (mA) |
|------------------|----------|-------------|--------------------|-----|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| NEW PC17X01.0 | CW CRI70 | 4700K-7000K | 155 | 175 | 2.6 | 3.1 | 350 |
| | PC Red | NA | 50 | 60 | 2.6 | 3.1 | 350 |
| | PC Amber | NA | 110 | 125 | 2.6 | 3.1 | 350 |
| | PC Green | NA | 180 | 200 | 2.6 | 3.1 | 350 |
| | Red | 620-630 | 50 | 60 | 1.8 | 2.6 | 350 |

2020 Color

- High lumen output in a directional application
- Excellent reliability meeting professional requirement
- For narrow beam angles requirement



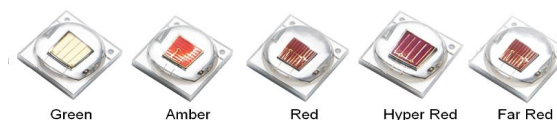
2.0 X 2.0 X 0.85 mm

T_j=25C

| Model Name | Color | Wd (nm) | Luminous Flux (lm) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|------------|-------------|--------------------|-----|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| PC20X09 V0 | Red | 620-630 | 67 | 72 | 1.8 | 2.6 | 350 |
| | Blue | 470-485 | 39 | 46 | 2.6 | 3.4 | 350 |
| | Royal Blue | 457-470 | 33 | 39 | 2.6 | 3.4 | 350 |
| | Green | 515-540 | 90 | 110 | 2.5 | 3.4 | 350 |
| | Amber | 580-595 | 38 | 47 | 1.8 | 2.6 | 350 |
| | PC Amber | NA | 100 | 102 | 2.6 | 3.4 | 350 |
| | WW CRI80 | 2600K-3700K | 100 | 128 | 2.6 | 3.4 | 350 |
| | NW CRI80 | 3700K-4700K | 110 | 140 | 2.6 | 3.4 | 350 |
| | CW CRI80 | 4700K-7000K | 110 | 140 | 2.6 | 3.4 | 350 |
| | CW CRI70 | 4700K-7000K | 115 | 160 | 2.6 | 3.4 | 350 |

Multi – Color LED

3535 Color



- • Excellent reliability meeting professional requirement
- • Standard 3535 foot print for drop-in replacement Designs
- • Best thermal solution /High performance
- • Superior efficiency PPF/W in horticulture application

3.5 x 3.5 x 2.24 (mm)

Tj=25C

| Model Name | Color | Wd (nm) | Luminous Flux (lm) /Radiant Flux (mW) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|------------|---------|---------------------------------------|---------|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| PEX3X09 V2 | Green | 520-530 | 120 | 150 | 2.4 | 3.2 | 350 |
| | Cyan | 495-505 | 100 | 130 | 2.4 | 3.2 | 350 |
| | Amber | 580-600 | 50 | 70 | 2 | 2.6 | 350 |
| | Red | 615-635 | 60 | 85 | 1.8 | 2.2 | 350 |
| | Hyper Red | 655-665 | 400 mW | 500 mW | 1.8 | 2.2 | 350 |
| | Far Red | 720-740 | 250 mW | 400 mW | 1.9 | 2.6 | 350 |
| | PC Amber | NA | 100 | 130 | 2.6 | 3.2 | 350 |
| | Blue | 465-475 | 45 | 75 | 2.8 | 3.2 | 350 |
| | Royal Blue | 455-460 | 700 mW | 1000 mW | 2.8 | 3.2 | 350 |
| CW CRI70 | 5000-8050K | 150 | 180 | 2.8 | 3.4 | 350 | |



Tj=85C



3.5 x 3.5 x 2.24 mm

| Model Name | Color | CCT | Luminous Flux (lm) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|----------|-------|--------------------|-----|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| PEX3N10 V0 | WW CRI80 | 3000K | 250 | 310 | 2.6 | 3.4 | 700 |
| | NW CRI70 | 4000K | 290 | 350 | 2.6 | 3.4 | 700 |
| | CW CRI70 | 5700K | 290 | 350 | 2.6 | 3.4 | 700 |
| | CW CRI70 | 6100K | 290 | 350 | 2.6 | 3.4 | 700 |
| | CW CRI70 | 6500K | 290 | 350 | 2.6 | 3.4 | 700 |

- Horticulture Lighting
- Highbay Industrial
- Downlight



3.0 x 3.0 x 0.62 (mm)

T_j=25C



| Model Name | Color | Wd (nm) | Radiant Flux (mW) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|-----------|---------|-------------------|------|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| PEX3N10 V1 | Hyper Red | 650-670 | 1050 | 1150 | 1.8 | 2.2 | 700 |
| | Blue | 450-475 | 900 | 1110 | 2.8 | 3.2 | 700 |

NEW



3.70 x 3.5 x 0.8 (mm)

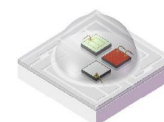
3535 9W

T_j=25C

| Model Name | Color | Wd (nm) | Luminous Flux (lm) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|----------|---------|--------------------|-----|---------------------|-----|----------------------|
| | | | Min | Max | Min | Max | |
| PEX3N10 V2 | CW CRI70 | 6500K | 460 | 520 | 2.7 | 3.1 | 1500 |
| | CW CRI70 | 5700K | 460 | 520 | 2.7 | 3.1 | 1500 |
| | CW CRI70 | 5000K | 460 | 520 | 2.7 | 3.1 | 1500 |
| | NW CRI70 | 4000K | 460 | 520 | 2.7 | 3.1 | 1500 |
| | NW CRI70 | 3500K | 440 | 500 | 2.7 | 3.1 | 1500 |
| | WW CRI70 | 3000K | 440 | 500 | 2.7 | 3.1 | 1500 |
| | WW CRI70 | 2700K | 420 | 480 | 2.7 | 3.1 | 1500 |

NEW

- Lead frame package with individual 8 pins
- High sensitivity for red, green and blue light



3.45 x 3.45 x 2.00 (mm)

3535 3in1 RGB

| Model Name | Color | Wd (nm) | Luminous Flux (lm) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|-------|---------|--------------------|-----|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| PEX3X09 V5 | Red | 620-630 | 40 | 60 | 2 | 3 | 350 |
| | Green | 520-525 | 75 | 85 | 2.5 | 3.5 | 350 |
| | Blue | 450-455 | 15 | 20 | 2.5 | 3.5 | 350 |

NEW

- Lead frame package with individual 8 pins
- High sensitivity for red, green and blue light



3.45 x 3.45 x 2.00 (mm)

3535 4in1 RGBW

| Model Name | Color | Wd (nm) | Luminous Flux (lm) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|---------|---------|--------------------|-----|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| PEX3X09.6 | Red | 620-630 | 40 | 60 | 2 | 3 | 350 |
| | Green | 520-525 | 75 | 85 | 2.5 | 3.5 | 350 |
| | Blue | 450-455 | 15 | 20 | 2.5 | 3.5 | 350 |
| | CW Ra70 | 6500K | 60 | 80 | 2.5 | 3.5 | 350 |

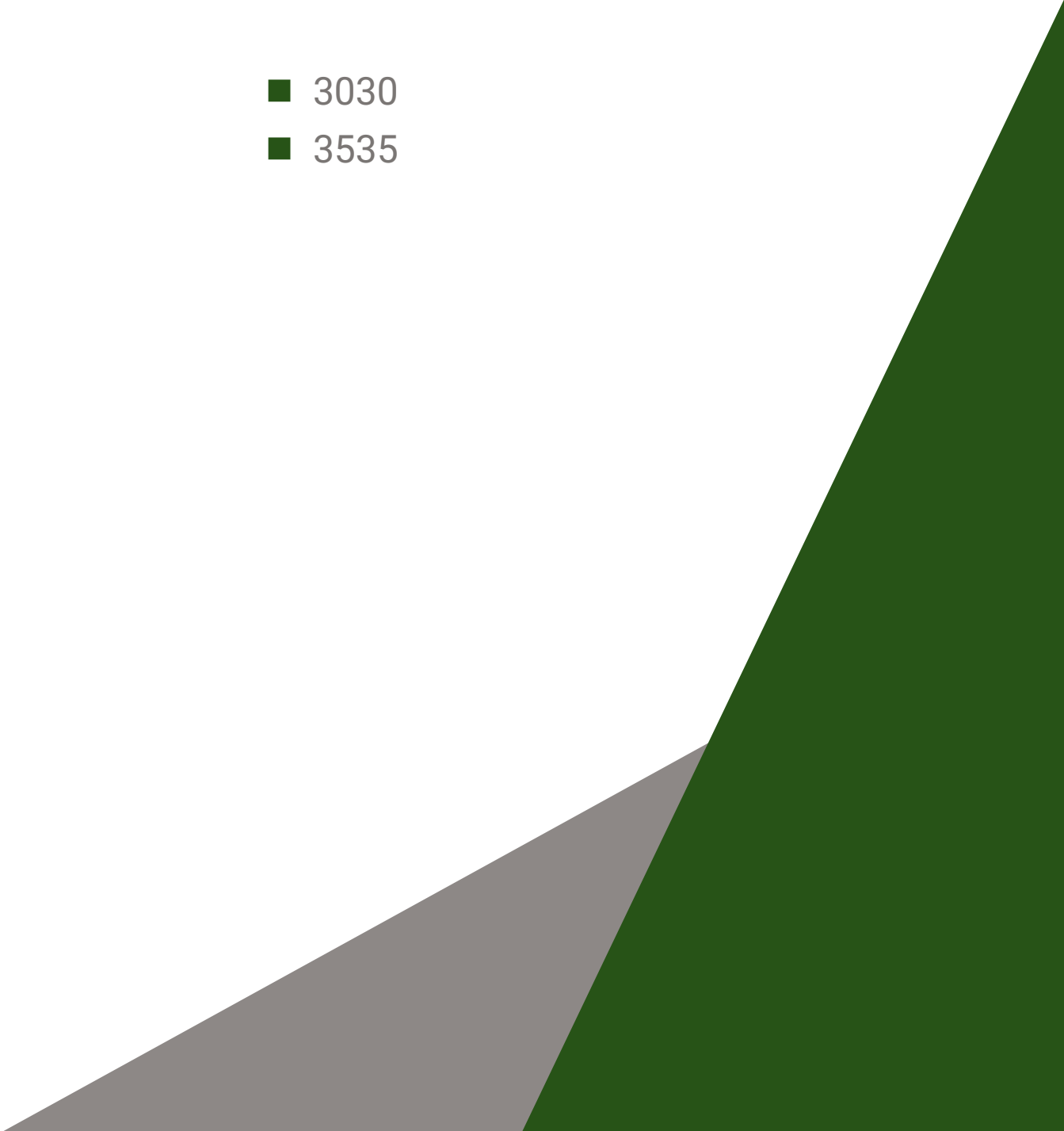
NEW



Horticulture Series

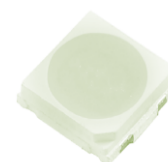
■ 3030

■ 3535



3030 Horticulture

- Excellent reliability meeting professional requirement
- Standard 3030 foot print for drop-in replacement Designs
- Best thermal solution



5.8 x 5.2 x 0.7 (mm)

T_j=25C

| Model Name | Color | Wd (nm) | Radiant Flux (mW) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|------------|---------|-------------------|--------|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| PC33X50 V0 | Royal Blue | 450-457 | 190 mW | 250 mW | 2.8 | 3.6 | 150 |
| | Hyper Red | 650-670 | 130 mW | 145 mW | 1.8 | 2.6 | 150 |
| | Far Red | 715-745 | 70 mW | 85 mW | 1.8 | 2.6 | 150 |

3535 Horticulture

- Excellent reliability meeting professional requirement
- Standard 3535 foot print for drop-in replacement Designs
- Best thermal solution /High performance
- Superior efficiency PPF/W in horticulture application



3.45 x 3.45 x 2.34mm

T_j=25C

| Model Name | Color | Wd (nm) | Radiant Flux (mW) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|------------|------------|-------------------|---------|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| PEX3N10 V1 | Hyper Red | 650-670 | 1050 mW | 1150 mW | 1.8 | 2.2 | 700 |
| | Blue | 450-475 | 900 mW | 1110 mW | 2.8 | 3.2 | 700 |
| PEX3X09 V2 | Hyper Red | 655-665 | 400 mW | 500 mW | 1.8 | 2.2 | 350 |
| | Far Red | 720-740 | 250 mW | 400 mW | 1.9 | 2.6 | 350 |
| | Royal Blue | 455-460 | 700 mW | 1000 mW | 2.8 | 3.2 | 350 |
| | CW CRI70 | 5000-8050K | 150 | 180 | 2.8 | 3.4 | 350 |

T_j=85C

| Model Name | Color | Wd (nm) | Radiant Flux (mW) | | Forward Voltage (V) | | Forward Current (mA) |
|------------|----------|---------|-------------------|-----|---------------------|-----|----------------------|
| | | | Min | Typ | Min | Max | |
| PEX3N10 V0 | WW CRI80 | 3000K | 250 | 310 | 2.6 | 3.4 | 700 |
| | NW CRI70 | 4000K | 290 | 350 | 2.6 | 3.4 | 700 |
| | CW CRI70 | 5700K | 290 | 350 | 2.6 | 3.4 | 700 |
| | CW CRI70 | 6100K | 290 | 350 | 2.6 | 3.4 | 700 |
| | CW CRI70 | 6500K | 290 | 350 | 2.6 | 3.4 | 700 |



COB

- Version 5

Version 5 COB excellent efficacy, lifetime, quality



- Low thermal resistance and 2.5X operating available
- High efficacy and long life time (L70 > 50,000@105°C)
- Solar white Ra>95 solution



Solar white Tj = 85°C

| Light Emitting Surface | Model Name | Dimension LxWxH (mm) | Power(W) | CRI | CCT (K) | Luminous Flux (lm) | Efficacy(lm/w) | Forward Voltage (V) | Forward Current (mA) |
|------------------------|------------|-------------------------|----------|-------|---------|--------------------|----------------|---------------------|----------------------|
| | | | | (min) | | | | | |
| 9.8 | PB06V11 V0 | 13.5*13.5*1.5 | 6.12 | 95 | 2700K | 659 | 108 | 34.0 | 180 |
| | | | | 95 | 3000K | 690 | 113 | 34.0 | 180 |
| | | | | 95 | 3500K | 708 | 116 | 34.0 | 180 |
| | | | | 95 | 4000K | 719 | 117 | 34.0 | 180 |
| | | | | 95 | 5000K | 726 | 119 | 34.0 | 180 |
| | | | | 95 | 6500K | 712 | 116 | 34.0 | 180 |
| | PB09V03 V0 | | 9.18 | 95 | 2700K | 983 | 107 | 34.0 | 270 |
| | | | | 95 | 3000K | 1029 | 112 | 34.0 | 270 |
| | | | | 95 | 3500K | 1055 | 115 | 34.0 | 270 |
| | | | | 95 | 4000K | 1071 | 117 | 34.0 | 270 |
| | | | | 95 | 5000K | 1082 | 118 | 34.0 | 270 |
| | | | | 95 | 6500K | 1060 | 115 | 34.0 | 270 |
| | PB13V03 V0 | | 12.24 | 95 | 2700K | 1285 | 105 | 34.0 | 360 |
| | | | | 95 | 3000K | 1337 | 109 | 34.0 | 360 |
| | | | | 95 | 3500K | 1370 | 112 | 34.0 | 360 |
| | | | | 95 | 4000K | 1391 | 114 | 34.0 | 360 |
| | | | | 95 | 5000K | 1405 | 115 | 34.0 | 360 |
| | | | | 95 | 6500K | 1377 | 113 | 34.0 | 360 |
| 14.5 | PB16V03 V0 | 19.0*19.0*1.5 | 15.3 | 95 | 2700K | 1664 | 109 | 34.0 | 450 |
| | | | | 95 | 3000K | 1734 | 113 | 34.0 | 450 |
| | | | | 95 | 3500K | 1778 | 116 | 34.0 | 450 |
| | | | | 95 | 4000K | 1806 | 118 | 34.0 | 450 |
| | | | | 95 | 5000K | 1824 | 119 | 34.0 | 450 |
| | | | | 95 | 6500K | 1787 | 117 | 34.0 | 450 |
| | PB19V03 V0 | | 18.36 | 95 | 2700K | 1974 | 108 | 34.0 | 540 |
| | | | | 95 | 3000K | 2057 | 112 | 34.0 | 540 |
| | | | | 95 | 3500K | 2108 | 115 | 34.0 | 540 |
| | | | | 95 | 4000K | 2142 | 117 | 34.0 | 540 |
| | | | | 95 | 5000K | 2165 | 118 | 34.0 | 540 |
| | | | | 95 | 6500K | 2121 | 116 | 34.0 | 540 |
| | PB26V03 V0 | | 24.48 | 95 | 2700K | 2574 | 105 | 34.0 | 720 |
| | | | | 95 | 3000K | 2695 | 110 | 34.0 | 720 |
| | | | | 95 | 3500K | 2766 | 113 | 34.0 | 720 |
| | | | | 95 | 4000K | 2808 | 115 | 34.0 | 720 |
| | | | | 95 | 5000K | 2837 | 116 | 34.0 | 720 |
| | | | | 95 | 6500K | 2780 | 114 | 34.0 | 720 |
| 22.0 | PB38V03 V0 | 28.0*28.0 | 36.72 | 95 | 2700K | 4071 | 111 | 34.0 | 1080 |
| | | | | 95 | 3000K | 4262 | 116 | 34.0 | 1080 |
| | | | | 95 | 3500K | 4375 | 119 | 34.0 | 1080 |
| | | | | 95 | 4000K | 4442 | 121 | 34.0 | 1080 |
| | | | | 95 | 5000K | 4487 | 122 | 34.0 | 1080 |
| | | | | 95 | 6500K | 4397 | 120 | 34.0 | 1080 |
| | PB54V03 V0 | | 55.188 | 95 | 2700K | 5888 | 107 | 51.1 | 1080 |
| | | | | 95 | 3000K | 6150 | 111 | 51.1 | 1080 |
| | | | | 95 | 3500K | 6255 | 113 | 51.1 | 1080 |
| | | | | 95 | 4000K | 6413 | 116 | 51.1 | 1080 |
| | | | | 95 | 5000K | 6450 | 117 | 51.1 | 1080 |
| | | | | 95 | 6500K | 6413 | 116 | 51.1 | 1080 |

T_j = 85°C

| Light Emitting Surface | Model Name | Dimension LxWxH (mm) | Power(W) | CRI | CCT (K) | Luminous Flux (lm) | Efficacy(lm/w) | Forward Voltage (V) | Forward Current (mA) |
|------------------------|------------|-------------------------|----------|-------|---------|--------------------|----------------|---------------------|-------------------------|
| | | | | (min) | | Typ | Typ | Typ | |
| 9.8 | PB06H09 V2 | 13.5*13.5*1.5 | 6.12 | 80 | 2700K | 879 | 144 | 34.0 | 180 |
| | | | | 80 | 3000K | 920 | 150 | 34.0 | 180 |
| | | | | 80 | 3500K | 944 | 154 | 34.0 | 180 |
| | | | | 80 | 4000K | 958 | 157 | 34.0 | 180 |
| | | | | 80 | 5000K | 968 | 158 | 34.0 | 180 |
| | | | | 80 | 6500K | 949 | 155 | 34.0 | 180 |
| | PB09H01 V1 | | 9.18 | 80 | 2700K | 1310 | 143 | 34.0 | 270 |
| | | | | 80 | 3000K | 1372 | 149 | 34.0 | 270 |
| | | | | 80 | 3500K | 1407 | 153 | 34.0 | 270 |
| | | | | 80 | 4000K | 1428 | 156 | 34.0 | 270 |
| | | | | 80 | 5000K | 1442 | 157 | 34.0 | 270 |
| | PB13H01 V1 | | 12.24 | 80 | 6500K | 1413 | 154 | 34.0 | 270 |
| | | | | 80 | 2700K | 1713 | 140 | 34.0 | 360 |
| | | | | 80 | 3000K | 1782 | 146 | 34.0 | 360 |
| | | | | 80 | 3500K | 1826 | 149 | 34.0 | 360 |
| 80 | | 4000K | | 1854 | 151 | 34.0 | 360 | | |
| 14.5 | PB16H01 V1 | 19.0*19.0*1.5 | 15.3 | 80 | 5000K | 1873 | 153 | 34.0 | 360 |
| | | | | 80 | 6500K | 1836 | 150 | 34.0 | 360 |
| | | | | 80 | 2700K | 2218 | 145 | 34.0 | 450 |
| | | | | 80 | 3000K | 2312 | 151 | 34.0 | 450 |
| | | | | 80 | 3500K | 2370 | 155 | 34.0 | 450 |
| | | | | 80 | 4000K | 2408 | 157 | 34.0 | 450 |
| | PB19H01 V1 | | 18.36 | 80 | 5000K | 2432 | 159 | 34.0 | 450 |
| | | | | 80 | 6500K | 2383 | 156 | 34.0 | 450 |
| | | | | 80 | 2700K | 2632 | 143 | 34.0 | 540 |
| | | | | 80 | 3000K | 2742 | 149 | 34.0 | 540 |
| | | | | 80 | 3500K | 2811 | 153 | 34.0 | 540 |
| | | | | 80 | 4000K | 2856 | 156 | 34.0 | 540 |
| | PB26H01 V1 | | 24.48 | 80 | 5000K | 2886 | 157 | 34.0 | 540 |
| | | | | 80 | 6500K | 2828 | 154 | 34.0 | 540 |
| | | | | 80 | 2700K | 3432 | 140 | 34.0 | 720 |
| 80 | | 3000K | | 3593 | 147 | 34.0 | 720 | | |
| 80 | | 3500K | | 3688 | 151 | 34.0 | 720 | | |
| 80 | | 4000K | | 3744 | 153 | 34.0 | 720 | | |
| 22.0 | PB38H01 V1 | 28.0*28.0 | 36.72 | 80 | 5000K | 3782 | 154 | 34.0 | 720 |
| | | | | 80 | 6500K | 3706 | 151 | 34.0 | 720 |
| | | | | 80 | 2700K | 5428 | 148 | 34.0 | 1080 |
| | | | | 80 | 3000K | 5683 | 155 | 34.0 | 1080 |
| | | | | 80 | 3500K | 5833 | 159 | 34.0 | 1080 |
| | | | | 80 | 4000K | 5922 | 161 | 34.0 | 1080 |
| | PB54H01 V0 | | 55.188 | 80 | 5000K | 5982 | 163 | 34.0 | 1080 |
| | | | | 80 | 6500K | 5862 | 160 | 34.0 | 1080 |
| | | | | 80 | 2700K | 7850 | 142 | 51.1 | 1080 |
| | | | | 80 | 3000K | 8200 | 149 | 51.1 | 1080 |
| | | | | 80 | 3500K | 8340 | 151 | 51.1 | 1080 |
| | | | | 80 | 4000K | 8550 | 155 | 51.1 | 1080 |
| | | | | 80 | 5000K | 8600 | 156 | 51.1 | 1080 |
| | | | | 80 | 6500K | 8550 | 155 | 51.1 | 1080 |

T_j = 85°C

| Light Emitting Surface | Model Name | Dimension LxWxH (mm) | Power(W) | CRI | CCT (K) | Luminous Flux (lm) | Efficacy(lm/w) | Forward Voltage (V) | Forward Current (mA) |
|------------------------|------------|-------------------------|----------|-------|---------|--------------------|----------------|---------------------|-------------------------|
| | | | | (min) | | | | | |
| 9.8 | PB06U10 V1 | 13.5*13.5*1.5 | 6.12 | 90 | 2700K | 747 | 122 | 34.0 | 180 |
| | | | | 90 | 3000K | 782 | 128 | 34.0 | 180 |
| | | | | 90 | 3500K | 802 | 131 | 34.0 | 180 |
| | | | | 90 | 4000K | 814 | 133 | 34.0 | 180 |
| | | | | 90 | 5000K | 823 | 134 | 34.0 | 180 |
| | | | | 90 | 6500K | 807 | 132 | 34.0 | 180 |
| | PB09U02 V1 | | 9.18 | 90 | 2700K | 1114 | 121 | 34.0 | 270 |
| | | | | 90 | 3000K | 1166 | 127 | 34.0 | 270 |
| | | | | 90 | 3500K | 1196 | 130 | 34.0 | 270 |
| | | | | 90 | 4000K | 1214 | 132 | 34.0 | 270 |
| | | | | 90 | 5000K | 1226 | 134 | 34.0 | 270 |
| | | | | 90 | 6500K | 1201 | 131 | 34.0 | 270 |
| | PB13U02 V1 | | 12.24 | 90 | 2700K | 1456 | 119 | 34.0 | 360 |
| | | | | 90 | 3000K | 1515 | 124 | 34.0 | 360 |
| | | | | 90 | 3500K | 1552 | 127 | 34.0 | 360 |
| | | | | 90 | 4000K | 1576 | 129 | 34.0 | 360 |
| | | | | 90 | 5000K | 1592 | 130 | 34.0 | 360 |
| | | | | 90 | 6500K | 1561 | 128 | 34.0 | 360 |
| 14.5 | PB16U02 V1 | 19.0*19.0*1.5 | 15.3 | 90 | 2700K | 1885 | 123 | 34.0 | 450 |
| | | | | 90 | 3000K | 1965 | 128 | 34.0 | 450 |
| | | | | 90 | 3500K | 2015 | 132 | 34.0 | 450 |
| | | | | 90 | 4000K | 2047 | 134 | 34.0 | 450 |
| | | | | 90 | 5000K | 2067 | 135 | 34.0 | 450 |
| | | | | 90 | 6500K | 2026 | 132 | 34.0 | 450 |
| | PB19U02 V1 | | 18.36 | 90 | 2700K | 2237 | 122 | 34.0 | 540 |
| | | | | 90 | 3000K | 2331 | 127 | 34.0 | 540 |
| | | | | 90 | 3500K | 2389 | 130 | 34.0 | 540 |
| | | | | 90 | 4000K | 2428 | 132 | 34.0 | 540 |
| | | | | 90 | 5000K | 2453 | 134 | 34.0 | 540 |
| | | | | 90 | 6500K | 2404 | 131 | 34.0 | 540 |
| | PB26U02 V1 | | 24.48 | 90 | 2700K | 2917 | 119 | 34.0 | 720 |
| | | | | 90 | 3000K | 3054 | 125 | 34.0 | 720 |
| | | | | 90 | 3500K | 3135 | 128 | 34.0 | 720 |
| | | | | 90 | 4000K | 3182 | 130 | 34.0 | 720 |
| | | | | 90 | 5000K | 3215 | 131 | 34.0 | 720 |
| | | | | 90 | 6500K | 3150 | 129 | 34.0 | 720 |
| 22.0 | PB38U02 V1 | 28.0*28.0 | 36.72 | 90 | 2700K | 4614 | 126 | 34.0 | 1080 |
| | | | | 90 | 3000K | 4831 | 132 | 34.0 | 1080 |
| | | | | 90 | 3500K | 4958 | 135 | 34.0 | 1080 |
| | | | | 90 | 4000K | 5034 | 137 | 34.0 | 1080 |
| | | | | 90 | 5000K | 5085 | 138 | 34.0 | 1080 |
| | | | | 90 | 6500K | 4983 | 136 | 34.0 | 1080 |
| | PB54U02 V0 | | 55.188 | 90 | 2700K | 6673 | 121 | 51.1 | 1080 |
| | | | | 90 | 3000K | 6970 | 126 | 51.1 | 1080 |
| | | | | 90 | 3500K | 7089 | 128 | 51.1 | 1080 |
| | | | | 90 | 4000K | 7268 | 132 | 51.1 | 1080 |
| | | | | 90 | 5000K | 7310 | 132 | 51.1 | 1080 |
| | | | | 90 | 6500K | 7268 | 132 | 51.1 | 1080 |



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