

Application Note 1-1

Z-POWER LED series**Binning and Labeling**

Z-Power series is designed for high current operation and high flux output applications.



Z-Power LED's thermal management perform exceeds other power LED solutions.

It incorporates state of the art SMD design and Thermal emission material.

Z Power LED is ideal light sources for general illumination applications, custom designed solutions, automotive large LCD backlights

This application note provides binning and labeling information of Z-Power LED series.

It includes the Z-Power LED bins for luminous flux, wavelength (or x,y coordinates), correlated color temperature (CCT) for white and forward voltage.

P4**Features**

- Super high flux output and high luminance
- Designed for high current operation
- Low thermal resistance
- SMT solderability
- Lead free product
- RoHS compliant

Applications

- Mobile phone flash
- Automotive interior / Exterior lighting
- Automotive signal lighting
- Automotive forward lighting
- Torch
- Architectural lighting
- LCD TV / Monitor backlight
- Projector light source
- Traffic signals
- Task lighting
- Decorative / Pathway lighting
- Remote / Solar powered lighting
- Household appliances

Part Number

Part numbers specify color, Z-Power series, Lens type, P_d, size, PCB and Grade of characteristic code type of Z-Power LED.

- Example: X₁ X₂ X₃ X₄ X₅ X₆ X₇ -X₈ X₉ ¹⁾

| X ₁ | Color |
|----------------|----------------------|
| W | Pure White |
| N | Warm White |
| S | Natural White |
| D | Royal Blue |
| B | Blue |
| C | Cyan |
| G | Green |
| A | Amber |
| R | Red |
| P | Photosynthetic Red |
| F | Full Color (7-color) |

| X ₂ | Z-Power Series |
|----------------|----------------|
| 1 | P1 |
| 4 | P4 |
| 5 | P5-II |
| 7 | P7 |
| 9 | P9 |

| X ₃ | LENS Type |
|----------------|----------------------------------|
| 0 | P1,P5-II Flat Type |
| 2 | P4,P7,P9 Dome Type ²⁾ |
| 9 | P4 narrow Type ³⁾ |

Note:

- 1) X₈, X₉ is a internal code number
- 2) Hemispherical dome type
- 3) View angle : 93°

| X₄ | Chip Quantity (or Power Dissipation) |
|----------------------|---|
| 1 | 1 chip (1W) |
| 2 | 2 chip (2.5W) |
| 3 | Full Color (7-color) |
| 4 | 4 chip (5W) |

| X₅ | Package Outline Size |
|----------------------|-----------------------------|
| 9 | 9 X 9 mm |
| 8 | D 8 mm |
| 6 | 5 X 6 mm |
| 5 | D 5 mm |

| X₆ | Metal PCB Type |
|----------------------|-----------------------|
| 0 | Emitter Only |
| 2 | Star |

| X₇ | Grade of Characteristic Code |
|----------------------|-------------------------------------|
| H | P4 Warm, Natural White Code |
| C | P9 Characteristic Code |

Code Labeling

1. Flux Bins

1-1. Luminous flux bin structure for pure white, warm white, blue, cyan, green, amber and red Z-Power.

| Bin Code | | Luminous Flux [lm] |
|----------|----|--------------------|
| J | | 6 ~ 8.5 |
| K | | 8.5 ~ 11.0 |
| L | | 11.0 ~ 14.5 |
| M | | 14.5 ~ 19.0 |
| O | | 19.0 ~ 24.5 |
| P | | 24.5 ~ 32.0 |
| Q | | 32.0 ~ 41.5 |
| R | | 41.5 ~ 54.0 |
| S | S1 | 54.0 ~ 60.0 |
| | S2 | 60.0 ~ 70.0 |
| T | T1 | 70.0 ~ 80.0 |
| | T2 | 80.0 ~ 91.0 |
| U | U1 | 91.0 ~ 100.0 |
| | U2 | 100.0 ~ 109.0 |
| | U3 | 109.0 ~ 118.5 |
| V | | 118.5 ~ 154.0 |
| W | | 154.0 ~ 200.0 |
| X | | 200.0 ~ 260.0 |
| Y | | 260.0 ~ 340.0 |

1-2. Radiant flux bin structure for Photosynthetic red Z-Power

| Bin Code | Radiant Flux [W] |
|----------|------------------|
| A | 0.15 ~ 0.30 |

The list explains the photometric luminous flux bins for Z-Power LED. Z-Power LED are tested and binned by photometric luminous flux. Not all bins are available in all colors.

Tolerance : ±10% of Luminous flux value

2. Color Bins

Z-Power are tested and binned for dominant wavelength (blue, green, amber, red) or x,y coordinates (pure white, warm white)

2 -1 Blue, Green, Amber, Red

| Bin Code | Color | Dominant Wavelength [nm] |
|----------|-------|--------------------------|
| BB1 | Blue | 455 ~ 460 |
| BB2 | | 460 ~ 465 |
| BB3 | | 465 ~ 470 |
| BB4 | | 470 ~ 475 |
| GG1 | Green | 520 ~ 525 |
| GG2 | | 525 ~ 530 |
| GG3 | | 530 ~ 535 |
| AA1 | Amber | 585 ~ 587.5 |
| AA2 | | 587.5 ~ 590 |
| AA3 | | 590 ~ 592.5 |
| AA4 | | 592.5 ~ 595 |
| RR1 | Red | 618 ~ 625 |
| RR2 | | 625 ~ 632 |

2 -2 Photosynthetic Red

| Bin Code | Color | Peak Wavelength [nm] |
|----------|-------|----------------------|
| PR1 | Red | 655 ~ 665 |

Tolerance

Dominant wavelength : ± 0.5 nm

Peak wavelength : ± 2.0 nm

2-3. Pure White CIE

Pure white product tested and binned by x,y coordinates and CCT

- Pure white bin structure

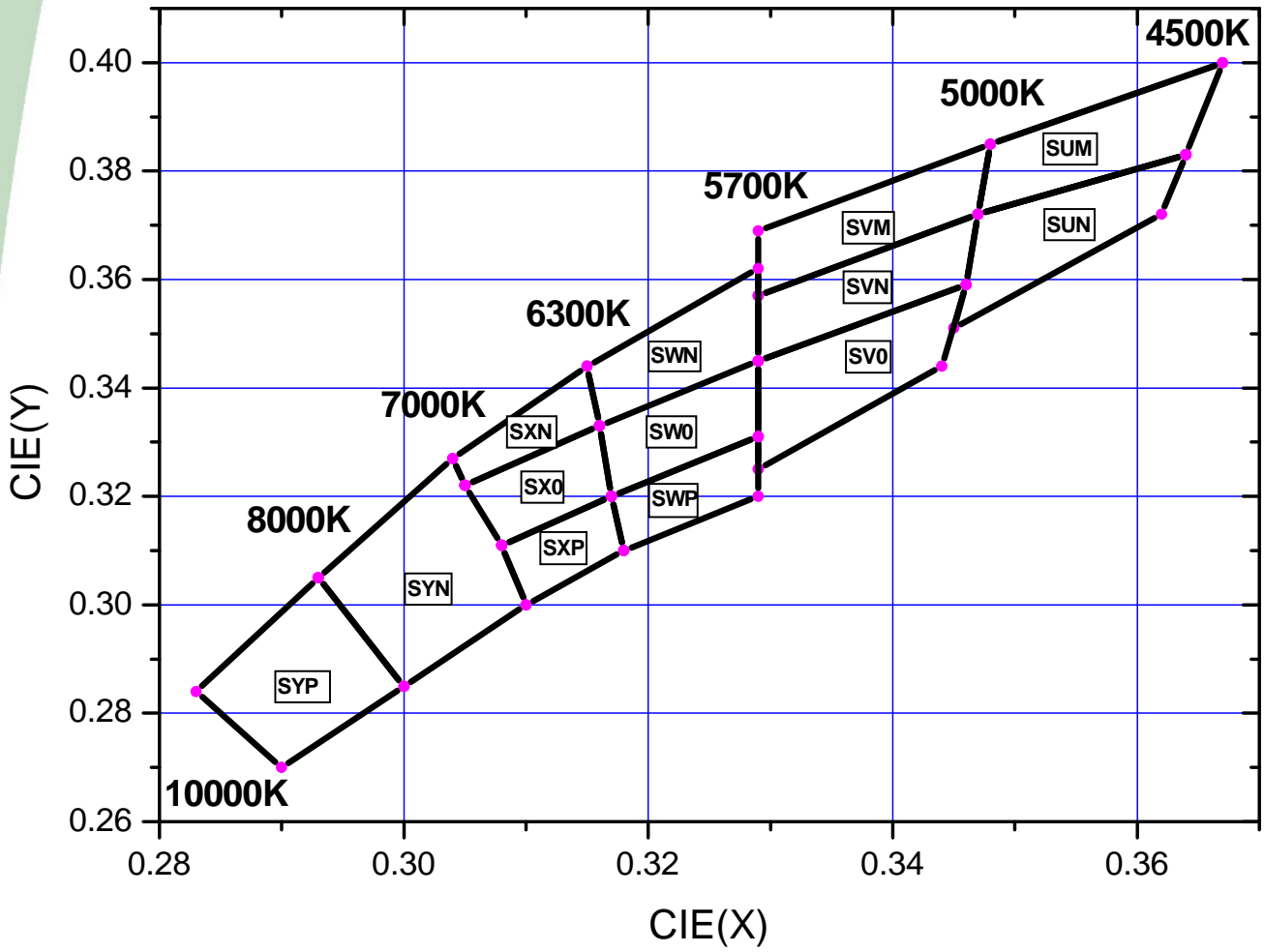
| Bin | CHR_X | CHR_Y | CCT(K) | Bin | CHR_X | CHR_Y | CCT(K) |
|-----|-------|-------|--------|-----|-------|-------|--------|
| SYP | 0.293 | 0.305 | 9000 | SWP | 0.329 | 0.331 | 6050 |
| | 0.283 | 0.284 | | | 0.317 | 0.320 | |
| | 0.290 | 0.270 | | | 0.318 | 0.310 | |
| | 0.300 | 0.285 | | | 0.329 | 0.320 | |
| SYN | 0.304 | 0.327 | 7500 | SVM | 0.329 | 0.325 | 5350 |
| | 0.293 | 0.305 | | | 0.348 | 0.385 | |
| | 0.300 | 0.285 | | | 0.329 | 0.369 | |
| | 0.310 | 0.300 | | | 0.329 | 0.362 | |
| | 0.308 | 0.311 | | | 0.329 | 0.357 | |
| SXN | 0.315 | 0.344 | 6700 | SVN | 0.347 | 0.372 | 5350 |
| | 0.304 | 0.327 | | | 0.329 | 0.357 | |
| | 0.305 | 0.322 | | | 0.329 | 0.345 | |
| | 0.316 | 0.333 | | | 0.346 | 0.359 | |
| SX0 | 0.316 | 0.333 | 6700 | SV0 | 0.346 | 0.359 | 5350 |
| | 0.305 | 0.322 | | | 0.329 | 0.345 | |
| | 0.308 | 0.311 | | | 0.329 | 0.331 | |
| | 0.317 | 0.32 | | | 0.329 | 0.325 | |
| SXP | 0.317 | 0.320 | 6700 | SUM | 0.344 | 0.344 | 4800 |
| | 0.308 | 0.311 | | | 0.345 | 0.351 | |
| | 0.310 | 0.300 | | | 0.367 | 0.400 | |
| | 0.318 | 0.310 | | | 0.348 | 0.385 | |
| SWN | 0.329 | 0.362 | 6050 | SUN | 0.347 | 0.372 | 4800 |
| | 0.315 | 0.344 | | | 0.364 | 0.383 | |
| | 0.316 | 0.333 | | | 0.347 | 0.372 | |
| | 0.329 | 0.345 | | | 0.346 | 0.359 | |
| SW0 | 0.329 | 0.345 | 6050 | | 0.345 | 0.351 | |
| | 0.316 | 0.333 | | | 0.362 | 0.372 | |
| | 0.317 | 0.320 | | | | | |
| | 0.329 | 0.331 | | | | | |

Tolerance

Color coordinate : ± 0.005

CCT : $\pm 5\%$ of value

- Pure white binning structure graphical representation



2-4. Natural white

Natural white product tested and binned by x,y coordinates and CCT

- Natural white bin structure

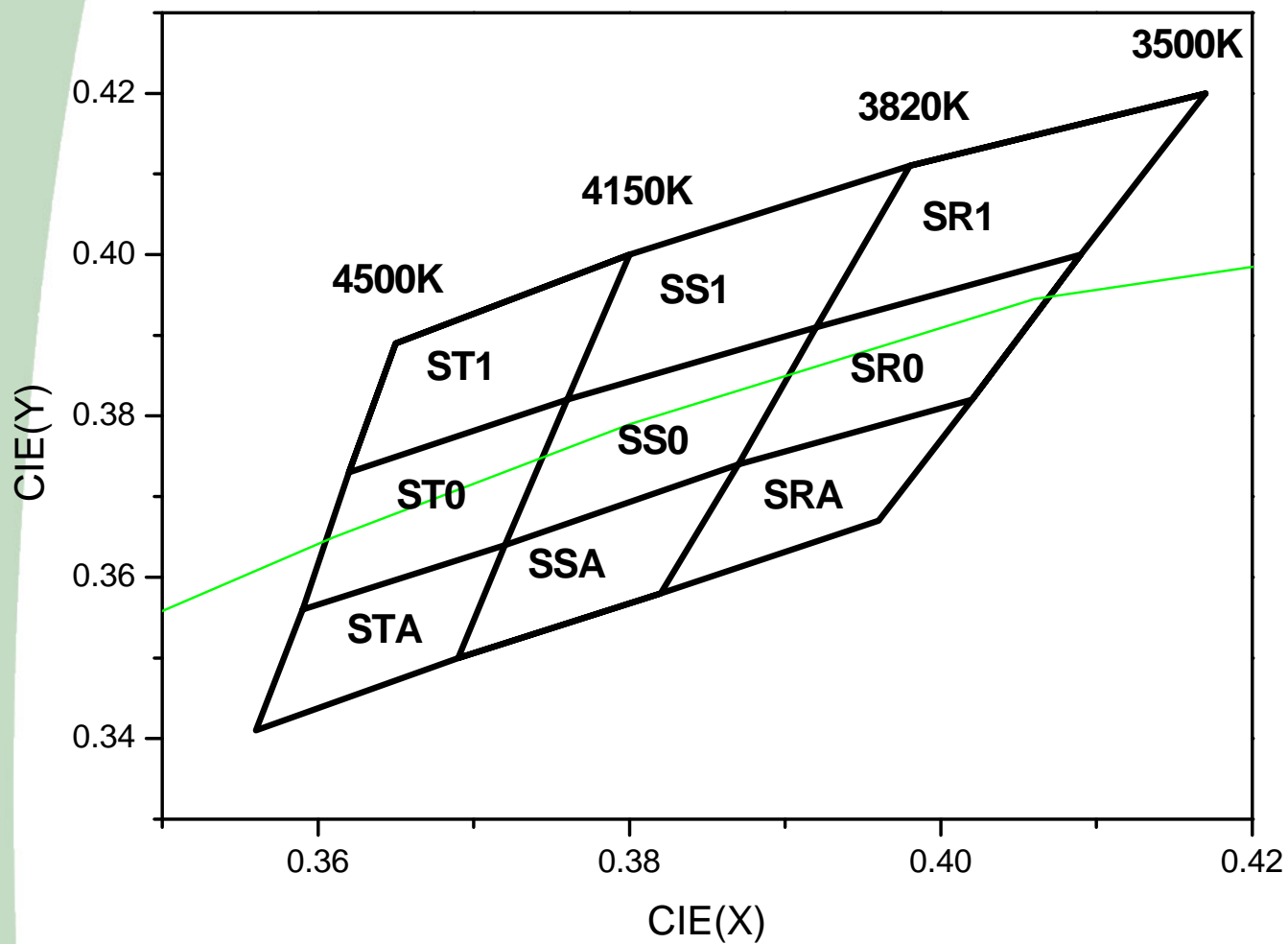
| Bin | CHR_X | CHR_Y | CCT(K) | Bin | CHR_X | CHR_Y | CCT(K) |
|-----|-------|-------|--------|-----|-------|-------|--------|
| ST1 | 0.380 | 0.400 | 4325 | SSA | 0.387 | 0.374 | 3985 |
| | 0.365 | 0.389 | | | 0.372 | 0.364 | |
| | 0.362 | 0.373 | | | 0.369 | 0.350 | |
| | 0.376 | 0.382 | | | 0.382 | 0.358 | |
| ST0 | 0.376 | 0.382 | 4325 | SR1 | 0.417 | 0.420 | 3660 |
| | 0.362 | 0.373 | | | 0.398 | 0.411 | |
| | 0.359 | 0.356 | | | 0.392 | 0.391 | |
| | 0.372 | 0.364 | | | 0.409 | 0.400 | |
| STA | 0.372 | 0.364 | 4325 | SR0 | 0.409 | 0.400 | 3660 |
| | 0.359 | 0.356 | | | 0.392 | 0.391 | |
| | 0.356 | 0.341 | | | 0.387 | 0.374 | |
| | 0.369 | 0.350 | | | 0.402 | 0.382 | |
| SS1 | 0.398 | 0.411 | 3985 | SRA | 0.402 | 0.382 | 3660 |
| | 0.380 | 0.400 | | | 0.387 | 0.374 | |
| | 0.376 | 0.382 | | | 0.382 | 0.358 | |
| | 0.392 | 0.391 | | | 0.396 | 0.367 | |
| SS0 | 0.392 | 0.391 | 3985 | | | | |
| | 0.376 | 0.382 | | | | | |
| | 0.372 | 0.364 | | | | | |
| | 0.387 | 0.374 | | | | | |

Tolerance

Color coordinate : ± 0.005

CCT : $\pm 5\%$ of value

- Natural white binning structure graphical representation



2-5. Warm White

Warm white product tested and binned by x,y coordinates and CCT

- Warm white bin structure

| Bin | CHR_X | CHR_Y | CCT(K) | Bin | CHR_X | CHR_Y | CCT(K) |
|-----|-------|-------|--------|-----|-------|-------|--------|
| SL1 | 0.435 | 0.429 | 3375 | SJ1 | 0.466 | 0.440 | 2950 |
| | 0.417 | 0.420 | | | 0.450 | 0.436 | |
| | 0.411 | 0.405 | | | 0.441 | 0.419 | |
| | 0.427 | 0.413 | | | 0.457 | 0.423 | |
| SL0 | 0.427 | 0.413 | 3375 | SJ0 | 0.457 | 0.423 | 2950 |
| | 0.411 | 0.405 | | | 0.441 | 0.419 | |
| | 0.405 | 0.390 | | | 0.433 | 0.403 | |
| | 0.420 | 0.398 | | | 0.449 | 0.408 | |
| SLA | 0.420 | 0.398 | 3375 | SJA | 0.449 | 0.408 | 2950 |
| | 0.405 | 0.390 | | | 0.433 | 0.403 | |
| | 0.399 | 0.375 | | | 0.426 | 0.388 | |
| | 0.412 | 0.381 | | | 0.440 | 0.392 | |
| SLB | 0.412 | 0.381 | 3375 | SJB | 0.440 | 0.392 | 2950 |
| | 0.399 | 0.375 | | | 0.426 | 0.388 | |
| | 0.395 | 0.365 | | | 0.42 | 0.375 | |
| | 0.407 | 0.37 | | | 0.432 | 0.378 | |
| SK1 | 0.450 | 0.436 | 3150 | SH1 | 0.482 | 0.444 | 2750 |
| | 0.435 | 0.429 | | | 0.466 | 0.440 | |
| | 0.427 | 0.413 | | | 0.457 | 0.423 | |
| | 0.441 | 0.419 | | | 0.472 | 0.426 | |
| SK0 | 0.441 | 0.419 | 3150 | SH0 | 0.472 | 0.426 | 2750 |
| | 0.427 | 0.413 | | | 0.457 | 0.423 | |
| | 0.420 | 0.398 | | | 0.449 | 0.408 | |
| | 0.433 | 0.403 | | | 0.464 | 0.412 | |
| SKA | 0.433 | 0.403 | 3150 | SHA | 0.464 | 0.412 | 2750 |
| | 0.420 | 0.398 | | | 0.449 | 0.408 | |
| | 0.412 | 0.381 | | | 0.440 | 0.392 | |
| | 0.426 | 0.388 | | | 0.454 | 0.395 | |
| SKB | 0.426 | 0.388 | 3150 | SHB | 0.454 | 0.395 | 2750 |
| | 0.412 | 0.381 | | | 0.440 | 0.392 | |
| | 0.407 | 0.370 | | | 0.432 | 0.378 | |
| | 0.420 | 0.375 | | | 0.446 | 0.381 | |

Tolerance

Color coordinate : ± 0.005

CCT : $\pm 5\%$ of value

3. Forward Voltage Bins

| Bin Code | Forward Voltage [V] |
|----------|---------------------|
| D | 2.00 ~ 2.25 |
| E | 2.25 ~ 2.50 |
| F | 2.50 ~ 2.75 |
| G | 2.75 ~ 3.00 |
| H | 3.00 ~ 3.25 |
| I | 3.25 ~ 3.50 |
| J | 3.50 ~ 3.75 |
| K | 3.75 ~ 4.00 |
| L | 4.00 ~ 4.25 |
| M | 4.25 ~ 4.50 |

Tolerance : $\pm 0.06V$

1W Order Code (P4)

Z Power LED has an order code, use it as follows to purchase.

- Example: W42180 – 1A
 - W42180 : Part Number
 - 1A : Order code

You can select PCB type, Lens type and Z-Power LED series number as part number.

1. Pure White (1A,1B)

| Standard Order Codes for pure white | | | | |
|-------------------------------------|----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. – 1A | T1 | SXN | H I J K | T1SXNH~T1SXNK |
| | | SWN | | T1SWNH~T1SWNK |
| | | SX0 | | T1SX0H~T1SX0K |
| | | SW0 | | T1SW0H~T1SW0K |
| | T2 | SXN | | T2SXNH~T2SXNK |
| | | SWN | | T2SWNH~T2SWNK |
| | | SX0 | | T2SX0H~T2SX0K |
| | | SW0 | | T2SW0H~T2SW0K |
| Part No. – 1B | U1 | SXN | H I J K | U1SXNH~U1SXNK |
| | | SWN | | U1SWNH~U1SWNK |
| | | SX0 | | U1SX0H~U1SX0K |
| | | SW0 | | U1SW0H~U1SW0K |
| | U2 | SXN | | U2SXNH~U2SXNK |
| | | SWN | | U2SWNH~U2SWNK |
| | | SX0 | | U2SX0H~U2SX0K |
| | | SW0 | | U2SW0H~U2SW0K |
| | U3 | SXN | | U3SXNH~U3SXNK |
| | | SWN | | U3SWNH~U3SWNK |
| | | SX0 | | U3SX0H~U3SX0K |
| | | SW0 | | U3SW0H~U3SW0K |
| | V* | SXN | | VSXNH~VSXNK |
| | | SWN | | VSWNH~VSWNK |
| | | SX0 | | VSX0H~VSX0K |
| | | SW0 | | VSW0H~VSW0K |

* : Not yet available

1W Order Code (P4)

1. Pure White (1C,1D)

| Standard Order Codes for pure white | | | | |
|-------------------------------------|----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. – 1C | T1 | SX0 | H I J K | T1SX0H~T1SX0K |
| | | SW0 | | T1SW0H~T1SW0K |
| | | SXP | | T1SXPH~T1SXPK |
| | | SWP | | T1SWPH~T1SWPK |
| | T2 | SX0 | | T2SX0H~T2SX0K |
| | | SW0 | | T2SW0H~T2SW0K |
| | | SXP | | T2SXPH~T2SXPK |
| | | SWP | | T2SWPH~T2SWPK |
| Part No. – 1D | U1 | SX0 | H I J K | U1SX0H~U1SX0K |
| | | SW0 | | U1SW0H~U1SW0K |
| | | SXP | | U1SXPH~U1SXPK |
| | | SWP | | U1SWPH~U1SWPK |
| | U2 | SX0 | | U2SX0H~U2SX0K |
| | | SW0 | | U2SW0H~U2SW0K |
| | | SXP | | U2SXPH~U2SXPK |
| | | SWP | | U2SWPH~U2SWPK |
| | U3 | SXN | | U3SXNH~U3SXNK |
| | | SWN | | U3SWNH~U3SWNK |
| | | SX0 | | U3SX0H~U3SX0K |
| | | SW0 | | U3SW0H~U3SW0K |
| | V* | SX0 | | VSX0H~VSX0K |
| | | SW0 | | VSW0H~VSW0K |
| | | SXP | | VSXPH~VSXPK |
| | | SWP | | VSWPH~VSWPK |

* : Not yet available

1W Order Code (P4)

1. Pure White (1E,1F)

| Standard Order Codes for pure white | | | | |
|-------------------------------------|----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. – 1E | T1 | SYP | H I J K | T1SYPH~T1SYPK |
| | | SYN | | T1SYNH~T1SYNK |
| | T2 | SYP | | T2SYPH~T2SYPK |
| | | SYN | | T2SYNH~T2SYNK |
| Part No. – 1F | U1 | SYP | H I J K | U1SYPH~U1SYPK |
| | | SYN | | U1SYNH~U1SYNK |
| | U2 | SYP | | U2SYPH~U2SYPK |
| | | SYN | | U2SYNH~U2SYNK |
| | U3 | SYP | | U3SYPH~U3SYPK |
| | | SYN | | U3SYNH~U3SYNK |
| | V* | SYP | | VSYPH~VSYPK |
| | | SYN | | VSYNH~VSYNK |

* : Not yet available

1W Order Code (P4)

| Standard Order Codes for pure white | | | | |
|-------------------------------------|----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. – 1G | T1 | SVM | H I J K | T1SVMH~T1SVMK |
| | | SVN | | T1SVNH~T1SVNK |
| | | SVO | | T1SVOH~T1SVOK |
| | T2 | SVM | | T2SVMH~T2SVMK |
| | | SVN | | T2SVNH~T2SVNK |
| | | SVO | | T2SVOH~T2SVOK |
| Part No. – 1H | U1 | SVM | H I J K | U1SVMH~U1SVMK |
| | | SVN | | U1SVNH~U1SVNK |
| | | SVO | | U1SVOH~U1SVOK |
| | U2 | SVM | | U2SVMH~U2SVMK |
| | | SVN | | U2SVNH~U2SVNK |
| | | SVO | | U2SVOH~U2SVOK |
| | U3 | SVM | | U3SVMH~U3SVMK |
| | | SVN | | U3SVNH~U3SVNK |
| | | SVO | | U3SVOH~U3SVOK |
| | V* | SVM | | VSVMH~VSVMK |
| | | SVN | | VSVNH~VSVNK |
| | | SVO | | VSVOH~VSVOK |

* : Not yet available

1W Order Code (P4)

| Standard Order Codes for pure white | | | | | | |
|-------------------------------------|---------------|-----|------------------|---------------|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes | | |
| Part No. – 1I | T1 | SUM | H I J K | T1SUMH~T1SUMK | | |
| | | SUN | | T1SUNH~T1SUNK | | |
| | | SVN | | T1SVNH~T1SVNK | | |
| | T2 | SUM | | T2SUMH~T2SUMK | | |
| | | SUN | | T2SUNH~T2SUNK | | |
| | | SVN | | T2SVNH~T2SVNK | | |
| | Part No. – 1J | U1 | | SUM | H I J K | U1SUMH~U1SUMK |
| | | | | SUN | | U1SUNH~U1SUNK |
| | | | | SVN | | U1SVNH~U1SVNK |
| U2 | | SUM | U2SUMH~U2SUMK | | | |
| | | SUN | U2SUNH~U2SUNK | | | |
| | | SVN | U2SVNH~U2SVNK | | | |
| U3 | | SUM | U3SUMH~U3SUMK | | | |
| | | SUN | U3SUNH~U3SUNK | | | |
| | | SVN | U3SVNH~U3SVNK | | | |
| V* | | SUM | VSUMH~VSUMK | | | |
| | | SUN | VSUNH~VSUNK | | | |
| | | SVN | VSVNH~VSVNK | | | |

* : Not yet available

1W Order Code (P4)

Z Power LED has an order code, use it as follows to purchase.

- Example: S42180 – 1A
 - S42180 : Part Number
 - 1A : Order code

You can select PCB type, Lens type and Z-Power LED series number as part number.

2. Natural white - S42180 (1A,1B)

| Standard Order Codes for Natural white | | | | |
|--|----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. - 1A | S1 | ST1 | H I J K | S1ST1H~S1ST1K |
| | | SS1 | | S1SS1H~S1SS1K |
| | | ST0 | | S1ST0H~S1ST0K |
| | | SS0 | | S1SS0H~S1SS0K |
| | S2 | ST1 | | S2ST1H~S2ST1K |
| | | SS1 | | S2SS1H~S2SS1K |
| | | ST0 | | S2ST0H~S2ST0K |
| | | SS0 | | S2SS0H~S2SS0K |
| Part No. - 1B* | T1 | ST1 | H I J K | T1ST1H~T1ST1K |
| | | SS1 | | T1SS1H~T1SS1K |
| | | ST0 | | T1ST0H~T1ST0K |
| | | SS0 | | T1SS0H~T1SS0K |
| | T2 | ST1 | | T2ST1H~T2ST1K |
| | | SS1 | | T2SS1H~T2SS1K |
| | | ST0 | | T2ST0H~T2ST0K |
| | | SS0 | | T2SS0H~T2SS0K |

* : Not yet available

1W Order Code (P4)

2. Natural white - S42180 (1A,1B) (1C,1D)

| Standard Order Codes for Natural white | | | | |
|--|----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. - 1C | S1 | SS1 | H I J K | S1SS1H~S1SS1K |
| | | SR1 | | S1SR1H~S1SR1K |
| | | SS0 | | S1SS0H~S1SS0K |
| | | SR0 | | S1SS10H~RSR0K |
| | S2 | SS1 | | S2SS1H~S2SS1K |
| | | SR1 | | S2SR1H~S2SR1K |
| | | SS0 | | S2SS0H~S2SS0K |
| | | SR0 | | S2SR0H~S2SR0K |
| Part No. - 1D* | T1 | SS1 | H I J K | T1SS1H~T1SS1K |
| | | SR1 | | T1SR1H~T1SR1K |
| | | SS0 | | T1SS0H~T1SS0K |
| | | SR0 | | T1SR0H~T1SR0K |
| | T2 | SS1 | | T2SS1H~T2SS1K |
| | | SR1 | | T2SR1H~T2SR1K |
| | | SS0 | | T2SS0H~T2SS0K |
| | | SR0 | | T2SR0H~T2SR0K |

* : Not yet available

1W Order Code (P4)

2. Natural white - S42180 (1A,1B) (1E,1F)

| Standard Order Codes for Natural white | | | | |
|--|----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. - 1E | S1 | ST0 | H I J K | S1ST0H~S1ST0K |
| | | SS0 | | S1SS0H~S1SS0K |
| | | STA | | S1STAH~S1STAK |
| | | SSA | | S1SSAH~S1SSAK |
| | S2 | ST0 | | S2ST0H~S2ST0K |
| | | SS0 | | S2SS0H~S2SS0K |
| | | STA | | S2STAH~S2STAK |
| | | SSA | | S2SSAH~S2SSAK |
| Part No. - 1F* | T1 | ST0 | H I J K | T1ST0H~T1ST0K |
| | | SS0 | | T1SS0H~T1SS0K |
| | | STA | | T1STAH~T1STAK |
| | | SSA | | T1SSAH~T1SSAK |
| | T2 | ST0 | | T2ST0H~T2ST0K |
| | | SS0 | | T2SS0H~T2SS0K |
| | | STA | | T2STAH~T2STAK |
| | | SSA | | T2SSAH~T2SSAK |

* : Not yet available

1W Order Code (P4)

2. Natural white - S42180 (1A,1B) (1G,1H)

| Standard Order Codes for Natural white | | | | |
|--|----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. - 1G | S1 | SS0 | H I J K | S1SS0H~S1SS0K |
| | | SR0 | | S1SR0H~S1SR0K |
| | | SSA | | S1SSAH~S1SSAK |
| | | SRA | | S1SRAH~S1SRAK |
| | S2 | SS0 | | S2SS0H~S2SS0K |
| | | SR0 | | S2SR0H~S2SR0K |
| | | SSA | | S2SSAH~S2SSAK |
| | | SRA | | S2SRAH~S2SRAK |
| Part No. - 1H* | T1 | SS0 | H I J K | T1SS0H~T1SS0K |
| | | SR0 | | T1SR0H~T1SR0K |
| | | SSA | | T1SSAH~T1SSAK |
| | | SRA | | T1SRAH~T1SRAK |
| | T2 | SS0 | | T2SS0H~T2SS0K |
| | | SR0 | | T2SR0H~T2SR0K |
| | | SSA | | T2SSAH~T2SSAK |
| | | SRA | | T2SRAH~T2SRAK |

* : Not yet available

1W Order Code (P4)

Z Power LED has an order code, use it as follows to purchase.

- Example: S42180H – 1A
 - S42180H : Part Number
 - 1A : Order code

You can select PCB type, Lens type and Z-Power LED series number as part number.

3. Natural white - S42180H (1A,1B)

| Standard Order Codes for Natural white | | | | |
|--|-----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. - 1A | S2 | ST1 | H I J K | S2ST1H~S2ST1K |
| | | SS1 | | S2SS1H~S2SS1K |
| | | ST0 | | S2ST0H~S2ST0K |
| | | SS0 | | S2SS0H~S2SS0K |
| | T1 | ST1 | | T1ST1H~T1ST1K |
| | | SS1 | | T1SS1H~T1SS1K |
| | | ST0 | | T1ST0H~T1ST0K |
| | | SS0 | | T1SS0H~T1SS0K |
| Part No. - 1B | T2 | ST1 | H I J K | T2ST1H~T2ST1K |
| | | SS1 | | T2SS1H~T2SS1K |
| | | ST0 | | T2ST0H~T2ST0K |
| | | SS0 | | T2SS0H~T2SS0K |
| | U1* | ST1 | | U1ST1H~U1ST1K |
| | | SS1 | | U1SS1H~U1SS1K |
| | | ST0 | | U1ST0H~U1ST0K |
| | | SS0 | | U1SS0H~U1SS0K |

* : Not yet available

1W Order Code (P4)

3. Natural white - S42180H (1C,1D)

| Standard Order Codes for Natural white | | | | |
|--|-----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. - 1C | S2 | SS1 | H I J K | S2SS1H~S2SS1K |
| | | SR1 | | S2SR1H~S2SR1K |
| | | SS0 | | S2SS0H~S2SS0K |
| | | SR0 | | S2SR0H~S2SR0K |
| | T1 | SS1 | | T1SS1H~T1SS1K |
| | | SR1 | | T1SR1H~T1SR1K |
| | | SS0 | | T1SS0H~T1SS0K |
| | | SR0 | | T1SR0H~T1SR0K |
| Part No. - 1D | T2 | SS1 | H I J K | T2SS1H~T2SS1K |
| | | SR1 | | T2SR1H~T2SR1K |
| | | SS0 | | T2SS0H~T2SS0K |
| | | SR0 | | T2SR0H~T2SR0K |
| | U1* | SS1 | | U1SS1H~U1SS1K |
| | | SR1 | | U1SR1H~U1SR1K |
| | | SS0 | | U1SS0H~U1SS0K |
| | | SR0 | | U1SR0H~U1SR0K |

* : Not yet available

1W Order Code (P4)

3. Natural white - S42180H (1E,1F)

| Standard Order Codes for Natural white | | | | |
|--|-----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. - 1E | S2 | ST0 | H I J K | S2ST0H~S2ST0K |
| | | SS0 | | S2SS0H~S2SS0K |
| | | STA | | S2STAH~S2STAK |
| | | SSA | | S2SSAH~S2SSAK |
| | T1 | ST0 | | T1ST0H~T1ST0K |
| | | SS0 | | T1SS0H~T1SS0K |
| | | STA | | T1STAH~T1STAK |
| | | SSA | | T1SSAH~T1SSAK |
| Part No. - 1F | T2 | ST0 | H I J K | T2ST0H~T2ST0K |
| | | SS0 | | T2SS0H~T2SS0K |
| | | STA | | T2STAH~T2STAK |
| | | SSA | | T2SSAH~T2SSAK |
| | U1* | ST0 | | U1ST0H~U1ST0K |
| | | SS0 | | U1SS0H~U1SS0K |
| | | STA | | U1STAH~U1STAK |
| | | SSA | | U1SSAH~U1SSAK |

* : Not yet available

1W Order Code (P4)

3. Natural white - S42180H (1G,1H)

| Standard Order Codes for Natural white | | | | |
|--|-----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. - 1G | S2 | SS0 | H I J K | S2SS0H~S2SS0K |
| | | SR0 | | S2SR0H~S2SR0K |
| | | SSA | | S2SSAH~S2SSAK |
| | | SRA | | S2SRAH~S2SRAK |
| | T1 | SS0 | | T1SS0H~T1SS0K |
| | | SR0 | | T1SR0H~T1SR0K |
| | | SSA | | T1SSAH~T1SSAK |
| | | SRA | | T1SRAH~T1SRAK |
| Part No. - 1H | T2 | SS0 | H I J K | T2SS0H~T2SS0K |
| | | SR0 | | T2SR0H~T2SR0K |
| | | SSA | | T2SSAH~T2SSAK |
| | | SRA | | T2SRAH~T2SRAK |
| | U1* | SS0 | | U1SS0H~U1SS0K |
| | | SR0 | | U1SR0H~U1SR0K |
| | | SSA | | U1SSAH~U1SSAK |
| | | SRA | | U1SRAH~U1SRAK |

* : Not yet available

1W Order Code (P4)

Z Power LED has an order code, use it as follows to purchase.

- Example: N42180 – 1A
 - N42180 : Part Number
 - 1A : Order code

You can select PCB type, Lens type and Z-Power LED series number as part number.

4. Warm White - N42180 (1A,1B)

| Standard Order Codes for Warm white | | | | | |
|-------------------------------------|----|-----|------------------|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes | |
| Part No. – 1A | R | SLO | H I J K | RSLOH~RSL0K | |
| | | SLA | | RSLAH~RSLAK | |
| | | SKA | | RSKAH~RSKAK | |
| | | SK0 | | RSK0H~RSK0K | |
| | S1 | SLO | | S1SLOH~S1SL0K | |
| | | SLA | | S1SLAH~S1SLAK | |
| | | SKA | | S1SKAH~ S1SKAK | |
| | | SK0 | | S1SK0H~ S1SK0K | |
| Part No. - 1B | S2 | SLO | H I J K | S2SLOH~S2SL0K | |
| | | SLA | | S2SLAH~S2SLAK | |
| | | SKA | | S2SKAH~S2SKAK | |
| | | SK0 | | S2SK0H~S2SK0K | |
| | T1 | SLO | | H I J K | T1SLOH~T1SL0K |
| | | SLA | | | T1SLAH~T1SLAK |
| | | SKA | | | T1SKAH~T1SKAK |
| | | SK0 | | | T1SK0H~T1SK0K |

* : Not yet available

1W Order Code (P4)

4. Warm White – N42180 (1C,1D)

| Standard Order Codes for Warm white | | | | | | |
|-------------------------------------|---------------|-----|------------------|---------------|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes | | |
| Part No. – 1C | R | SK0 | H I J K | RSK0H~RSK0K | | |
| | | SKA | | RSKAH~RSKAK | | |
| | | SJA | | RSJAH~RSJAK | | |
| | | SJ0 | | RSJ0H~RSJ0K | | |
| | S1 | SK0 | | S1SK0H~S1SK0K | | |
| | | SKA | | S1SKAH~S1SKAK | | |
| | | SJA | | S1SJAH~S1SJAK | | |
| | | SJ0 | | S1SJ0H~S1SJ0K | | |
| | Part No. - 1D | S2 | | SK0 | H I J K | S2SK0H~S2SK0K |
| | | | | SKA | | S2SKAH~S2SKAK |
| SJA | | | S2SJAH~S2SJAK | | | |
| SJ0 | | | S2SJ0H~S2SJ0K | | | |
| T1 | | SK0 | H I J K | T1SK0H~T1SK0K | | |
| | | SKA | | T1SKAH~T1SKAK | | |
| | | SJA | | T1SJAH~T1SJAK | | |
| | | SJ0 | | T1SJ0H~T1SJ0K | | |

* : Not yet available

1W Order Code (P4)

4. Warm White – N42180 (1E,1F)

| Standard Order Codes for Warm white | | | | |
|-------------------------------------|----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. - 1E | R | SJ0 | H I J K | RSJ0H~RSJ0K |
| | | SJA | | RSJAH~RSJAK |
| | | SHA | | RSHAH~RSHAK |
| | | SH0 | | RSH0H~RSH0K |
| | S1 | SJ0 | | S1SJ0H~S1SJ0K |
| | | SJA | | S1SJAH~S1SJAK |
| | | SHA | | S1SHAH~S1SHAK |
| | | SH0 | | S1SH0H~S1SH0K |
| Part No. - 1F | S2 | SJ0 | H I J K | S2SJ0H~S2SJ0K |
| | | SJA | | S2SJAH~S2SJAK |
| | | SHA | | S2SHAH~S2SHAK |
| | | SH0 | | S2SH0H~S2SH0K |
| | T1 | SJ0 | H I J K | T1SJ0H~T1SJ0K |
| | | SJA | | T1SJAH~T1SJAK |
| | | SHA | | T1SHAH~T1SHAK |
| | | SH0 | | T1SH0H~T1SH0K |

* : Not yet available

1W Order Code (P4)

4. Warm White – N42180 (1G,1H)

| Standard Order Codes for Warm white | | | | |
|-------------------------------------|----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. - 1G | R | SL1 | H I J K | RSL1H~RSL1K |
| | | SL0 | | RSL0H~RSL0K |
| | | SK0 | | RSK0H~RSK0K |
| | | SK1 | | RSK1H~RSK1K |
| | S1 | SL1 | | S1SL1H~S1SL1K |
| | | SL0 | | S1SL0H~S1SL0K |
| | | SK0 | | S1SK0H~S1SK0K |
| | | SK1 | | S1SK1H~S1SK1K |
| Part No. - 1H | S2 | SL1 | H I J K | S2SL1H~S2SL1K |
| | | SL0 | | S2SL0H~S2SL0K |
| | | SK0 | | S2SK0H~S2SK0K |
| | | SK1 | | S2SK1H~S2SK1K |
| | T1 | SL1 | H I J K | T1SL1H~T1SL1K |
| | | SL0 | | T1SL0H~T1SL0K |
| | | SK0 | | T1SK0H~T1SK0K |
| | | SK1 | | T1SK1H~T1SK1K |

* : Not yet available

1W Order Code (P4)

4. Warm White – N42180 (1I,1J)

| Standard Order Codes for Warm white | | | | |
|-------------------------------------|----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. – 1I | R | SJ1 | H I J K | RSJ1H~RSJ1K |
| | | SJ0 | | RSJ0H~RSJ0K |
| | | SH0 | | RSH0H~RSH0K |
| | | SH1 | | RSH1H~RSH1K |
| | S1 | SJ1 | | S1SJ1H~S1SJ1K |
| | | SJ0 | | S1SJ0H~S1SJ0K |
| | | SH0 | | S1SH0H~S1SH0K |
| | | SH1 | | S1SH1H~S1SH1K |
| Part No. – 1J | S2 | SJ1 | H I J K | S2SJ1H~S2SJ1K |
| | | SJ0 | | S2SJ0H~S2SJ0K |
| | | SH0 | | S2SH0H~S2SH0K |
| | | SH1 | | S2SH1H~S2SH1K |
| | T1 | SJ1 | H I J K | T1SJ1H~T1SJ1K |
| | | SJ0 | | T1SJ0H~T1SJ0K |
| | | SH0 | | T1SH0H~T1SH0K |
| | | SH1 | | T1SH1H~T1SH1K |

* : Not yet available

1W Order Code (P4)

4. Warm White – N42180 (1K,1L)

| Standard Order Codes for Warm White | | | | | |
|-------------------------------------|----|-----|------------------|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes | |
| Part No. – 1K | R | SLA | H I J K | RSLAH~RSLAK | |
| | | SLB | | RSLBH~RSLBK | |
| | | SKB | | RSKBH~RSKBK | |
| | | SKA | | RSKAH~RSKAK | |
| | S1 | SLA | | S1SLAH~S1SLAK | |
| | | SLB | | S1SLBH~S1SLBK | |
| | | SKB | | S1SKBH~S1SKBK | |
| | | SKA | | S1SKAH~S1SKAK | |
| Part No. – 1L | S2 | SLA | H I J K | S2SLAH~S2SLAK | |
| | | SLB | | S2SLBH~S2SLBK | |
| | | SKB | | S2SKBH~S2SKBK | |
| | | SKA | | S2SKAH~S2SKAK | |
| | T1 | SLA | | H I J K | T1SLAH~T1SLAK |
| | | SLB | | | T1SLBH~T1SLBK |
| | | SKB | | | T1SKBH~T1SKBK |
| | | SKA | | | T1SKAH~T1SKAK |

* : Not yet available

1W Order Code (P4)

4. Warm White – N42180 (1M,1N)

| Standard Order Codes for Warm White | | | | |
|-------------------------------------|----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. – 1M | R | SJA | H I J K | RSJAH~RSJAK |
| | | SJB | | RSJBH~RSJBK |
| | | SHB | | RSHBH~RSHBK |
| | | SHA | | RSHAH~RSHAK |
| | S1 | SJA | | S1SJAH~S1SJAK |
| | | SJB | | S1SJBH~S1SJBK |
| | | SHB | | S1SHBH~S1SHBK |
| | | SHA | | S1SHAH~S1SHAK |
| Part No. – 1N | S2 | SJA | H I J K | S2SJAH~S2SJAK |
| | | SJB | | S2SJBH~S2SJBK |
| | | SHB | | S2SHBH~S2SHBK |
| | | SHA | | S2SHAH~S2SHAK |
| | T1 | SJA | H I J K | T1SJAH~T1SJAK |
| | | SJB | | T1SJBH~T1SJBK |
| | | SHB | | T1SHBH~T1SHBK |
| | | SHA | | T1SHAH~T1SHAK |

* : Not yet available

1W Order Code (P4)

Z Power LED has an order code, use it as follows to purchase.

- Example: N42180H – 1A
 - N42180H : Part Number
 - 1A : Order code

You can select PCB type, Lens type and Z-Power LED series number as part number.

5. Warm White – N42180H (1A,1B)

| Standard Order Codes for Warm white | | | | | |
|-------------------------------------|-----|-----|------------------|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes | |
| Part No. – 1A | S2 | SLO | H I J K | S2SLOH~S2SLOK | |
| | | SLA | | S2SLAH~S2SLAK | |
| | | SKA | | S2SKAH~S2SKAK | |
| | | SKO | | S2SKOH~S2SKOK | |
| | T1 | SLO | | T1SLOH~T1SLOK | |
| | | SLA | | T1SLAH~T1SLAK | |
| | | SKA | | T1SKAH~ T1SKAK | |
| | | SKO | | T1SKOH~ T1SKOK | |
| Part No. - 1B | T2 | SLO | H I J K | T2SLOH~T2SLOK | |
| | | SLA | | T2SLAH~T2SLAK | |
| | | SKA | | T2SKAH~T2SKAK | |
| | | SKO | | T2SKOH~T2SKOK | |
| | U1* | SLO | | H I J K | U1SLOH~U1SLOK |
| | | SLA | | | U1SLAH~U1SLAK |
| | | SKA | | | U1SKAH~U1SKAK |
| | | SKO | | | U1SKOH~U1SKOK |

* : Not yet available

1W Order Code (P4)

5. Warm White – N42180H (1C,1D)

| Standard Order Codes for Warm white | | | | |
|-------------------------------------|-----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. – 1C | S2 | SK0 | H I J K | S2SK0H~S2SK0K |
| | | SKA | | S2SKAH~S2SKAK |
| | | SJA | | S2SJAH~S2SJAK |
| | | SJ0 | | S2SJ0H~S2SJ0K |
| | T1 | SK0 | | T1SK0H~T1SK0K |
| | | SKA | | T1SKAH~T1SKAK |
| | | SJA | | T1SJAH~T1SJAK |
| | | SJ0 | | T1SJ0H~T1SJ0K |
| Part No. - 1D | T2 | SK0 | H I J K | T2SK0H~T2SK0K |
| | | SKA | | T2SKAH~T2SKAK |
| | | SJA | | T2SJAH~T2SJAK |
| | | SJ0 | | T2SJ0H~T2SJ0K |
| | U1* | SK0 | H I J K | U1SK0H~U1SK0K |
| | | SKA | | U1SKAH~U1SKAK |
| | | SJA | | U1SJAH~U1SJAK |
| | | SJ0 | | U1SJ0H~U1SJ0K |

* : Not yet available

1W Order Code (P4)

5. Warm White – N42180H (1E,1F)

| Standard Order Codes for Warm white | | | | |
|-------------------------------------|-----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. - 1E | S2 | SJ0 | H I J K | S2SJ0H~S2SJ0K |
| | | SJA | | S2SJAH~S2SJAK |
| | | SHA | | S2SHAH~S2SHAK |
| | | SH0 | | S2SH0H~S2SH0K |
| | T1 | SJ0 | | T1SJ0H~T1SJ0K |
| | | SJA | | T1SJAH~T1SJAK |
| | | SHA | | T1SHAH~T1SHAK |
| | | SH0 | | T1SH0H~T1SH0K |
| Part No. - 1F | T2 | SJ0 | H I J K | T2SJ0H~T2SJ0K |
| | | SJA | | T2SJAH~T2SJAK |
| | | SHA | | T2SHAH~T2SHAK |
| | | SH0 | | T2SH0H~T2SH0K |
| | U1* | SJ0 | H I J K | U1SJ0H~U1SJ0K |
| | | SJA | | U1SJAH~U1SJAK |
| | | SHA | | U1SHAH~U1SHAK |
| | | SH0 | | U1SH0H~U1SH0K |

* : Not yet available

1W Order Code (P4)

5. Warm White – N42180H (1G,1H)

| Standard Order Codes for Warm white | | | | |
|-------------------------------------|-----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. - 1G | S2 | SL1 | H I J K | S2SL1H~S2SL1K |
| | | SL0 | | S2SL0H~S2SL0K |
| | | SK0 | | S2SK0H~S2SK0K |
| | | SK1 | | S2SK1H~S2SK1K |
| | T1 | SL1 | | T1SL1H~T1SL1K |
| | | SL0 | | T1SL0H~T1SL0K |
| | | SK0 | | T1SK0H~T1SK0K |
| | | SK1 | | T1SK1H~T1SK1K |
| Part No. - 1H | T2 | SL1 | H I J K | T2SL1H~T2SL1K |
| | | SL0 | | T2SL0H~T2SL0K |
| | | SK0 | | T2SK0H~T2SK0K |
| | | SK1 | | T2SK1H~T2SK1K |
| | U1* | SL1 | H I J K | U1SL1H~U1SL1K |
| | | SL0 | | U1SL0H~U1SL0K |
| | | SK0 | | U1SK0H~U1SK0K |
| | | SK1 | | U1SK1H~U1SK1K |

* : Not yet available

1W Order Code (P4)

5. Warm White – N42180H (1I,1J)

| Standard Order Codes for Warm white | | | | |
|-------------------------------------|-----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. – 1I | S2 | SJ1 | H I J K | S2SJ1H~S2SJ1K |
| | | SJ0 | | S2SJ0H~S2SJ0K |
| | | SH0 | | S2SH0H~S2SH0K |
| | | SH1 | | S2SH1H~S2SH1K |
| | T1 | SJ1 | | T1SJ1H~T1SJ1K |
| | | SJ0 | | T1SJ0H~T1SJ0K |
| | | SH0 | | T1SH0H~T1SH0K |
| | | SH1 | | T1SH1H~T1SH1K |
| Part No. – 1J | T2 | SJ1 | H I J K | T2SJ1H~T2SJ1K |
| | | SJ0 | | T2SJ0H~T2SJ0K |
| | | SH0 | | T2SH0H~T2SH0K |
| | | SH1 | | T2SH1H~T2SH1K |
| | U1* | SJ1 | H I J K | U1SJ1H~U1SJ1K |
| | | SJ0 | | U1SJ0H~U1SJ0K |
| | | SH0 | | U1SH0H~U1SH0K |
| | | SH1 | | U1SH1H~U1SH1K |

* : Not yet available

1W Order Code (P4)

5. Warm White – N42180H (1K,1L)

| Standard Order Codes for Warm White | | | | | |
|-------------------------------------|-----|-----|------------------|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes | |
| Part No. – 1K | S2 | SLA | H I J K | S2SLAH~S2SLAK | |
| | | SLB | | S2SLBH~S2SLBK | |
| | | SKB | | S2SKBH~S2SKBK | |
| | | SKA | | S2SKAH~S2SKAK | |
| | T1 | SLA | | T1SLAH~T1SLAK | |
| | | SLB | | T1SLBH~T1SLBK | |
| | | SKB | | T1SKBH~T1SKBK | |
| | | SKA | | T1SKAH~T1SKAK | |
| Part No. – 1L | T2 | SLA | H I J K | T2SLAH~T2SLAK | |
| | | SLB | | T2SLBH~T2SLBK | |
| | | SKB | | T2SKBH~T2SKBK | |
| | | SKA | | T2SKAH~T2SKAK | |
| | U1* | SLA | | H I J K | U1SLAH~U1SLAK |
| | | SLB | | | U1SLBH~U1SLBK |
| | | SKB | | | U1SKBH~U1SKBK |
| | | SKA | | | U1SKAH~U1SKAK |

* : Not yet available

1W Order Code (P4)

5. Warm White – N42180H (1M,1N)

| Standard Order Codes for Warm White | | | | |
|-------------------------------------|-----|-----|------------------|---------------|
| Order Code | LF | CC | V _F | Bin Codes |
| Part No. – 1M | S2 | SJA | H I J K | S2SJAH~S2SJAK |
| | | SJB | | S2SJBH~S2SJBK |
| | | SHB | | S2SHBH~S2SHBK |
| | | SHA | | S2SHAH~S2SHAK |
| | T1 | SJA | | T1SJAH~T1SJAK |
| | | SJB | | T1SJBH~T1SJBK |
| | | SHB | | T1SHBH~T1SHBK |
| | | SHA | | T1SHAH~T1SHAK |
| Part No. – 1N | T2 | SJA | H I J K | T2SJAH~T2SJAK |
| | | SJB | | T2SJBH~T2SJBK |
| | | SHB | | T2SHBH~T2SHBK |
| | | SHA | | T2SHAH~T2SHAK |
| | U1* | SJA | H I J K | U1SJAH~U1SJAK |
| | | SJB | | U1SJBH~U1SJBK |
| | | SHB | | U1SHBH~U1SHBK |
| | | SHA | | U1SHAH~U1SHAK |

* : Not yet available

1W Order Code (P4)

6. Blue - B42180

| Standard Order Codes for Blue | | | | |
|-------------------------------|---------------|------------------|------------------|-------------|
| Order Code | Luminous Flux | Color Coordinate | Forward Voltage | Bin Codes |
| Part No. - 1A | M | BB1 | H I J K | MBB1H~MBB1K |
| | | BB2 | | MBB2H~MBB2K |
| | O* | BB1 | | OBB1H~OBB1K |
| | | BB2 | | OBB2H~OBB2K |
| Part No. - 1B | P* | BB1 | H I J K | PBB1H~PBB1K |
| | | BB2 | | PBB2H~PBB2K |
| | Q* | BB1 | | QBB1H~QBB1K |
| | | BB2 | | QBB2H~QBB2K |
| Part No. - 1C | M | BB3 | H I J K | MBB3H~MBB3K |
| | | BB4 | | MBB4H~MBB4K |
| | O | BB3 | | OBB3H~OBB3K |
| | | BB4 | | OBB4H~OBB4K |
| Part No. - 1D | P | BB3 | H I J K | PBB3H~PBB3K |
| | | BB4 | | PBB4H~PBB4K |
| | Q* | BB3 | | QBB3H~QBB3K |
| | | BB4 | | QBB4H~QBB4K |

* : Not yet available

1W Order Code (P4)

7. Green - G42180

| Standard Order Codes for Green | | | | |
|--------------------------------|---------------|------------------|-----------------|-------------|
| Order Code | Luminous Flux | Color Coordinate | Forward Voltage | Bin Codes |
| Part No. - 1A | S | GG1 | H,I,J,K,L | SGG1H~SGG1L |
| Part No. - 1B | T | | H,I,J,K,L | TGG1H~TGG1L |
| | U* | | | UGG1H~UGG1L |
| Part No. - 1C | S | GG2 | H,I,J,K,L | SGG2H~SGG2L |
| Part No. - 1D | T | | H,I,J,K,L | TGG2H~TGG2L |
| | U* | | | UGG2H~UGG2L |
| Part No. - 1E | S | GG3 | H,I,J,K,L | SGG3H~SGG3L |
| Part No. - 1F | T | | H,I,J,K,L | TGG3H~TGG3L |
| | U* | | | UGG3H~UGG3L |

* : Not yet available

1W Order Code (P4)

8. Amber - A42180

| Standard Order Codes for Amber | | | | |
|--------------------------------|---------------|------------------|------------------|-------------|
| Order Code | Luminous Flux | Color Coordinate | Forward Voltage | Bin Codes |
| Part No. - 1A | Q | AA1 | D E F G | QAA1D~QAA1G |
| | | AA2 | | QAA1D~QAA1G |
| | R | AA1 | | RAA1D~RAA1G |
| | | AA2 | | RAA2D~RAA2G |
| | S* | AA1 | | SAA1D~SAA1G |
| | | AA2 | | SAA1D~SAA1G |
| Part No.- 1B | Q | AA3 | D E F G | QAA3D~QAA3G |
| | | AA4 | | QAA4D~QAA4G |
| | R | AA3 | | RAA3D~RAA3G |
| | | AA4 | | RAA4D~RAA4G |
| | S* | AA3 | | SAA3D~SAA3G |
| | | AA4 | | SAA4D~SAA4G |

* : Not yet available

1W Order Code (P4)

9. Red - R42180

| Standard Order Codes for Red | | | | | |
|------------------------------|---------------|------------------|-----------------|-------------|-------------|
| Order Code | Luminous Flux | Color Coordinate | Forward Voltage | Bin Codes | |
| Part No. - 1A | Q | RR1 | D,E,F,G | QRR1D~QRR1G | |
| Part No. - 1B | R | | D,E,F,G | D,E,F,G | RRR1D~RRR1G |
| | S* | | | | SRR1D~SRR1G |
| Part No. - 1C | Q | RR2* | D,E,F,G | QRR2D~QRR2G | |
| Part No. - 1D | R | | D,E,F,G | D,E,F,G | RRR2D~RRR2G |
| | S | | | | SRR2D~SRR2G |

* : Not yet available

1W Order Code (P4)

10. Photosynthetic Red - P42180

| Standard Order Codes for Red | | | | |
|------------------------------|--------------|------------------|-----------------|-------------|
| Order Code | Radiant Flux | Color Coordinate | Forward Voltage | Bin Codes |
| Part No. - 1A | A | PR1 | D,E,F,G | APR1D~APR1G |

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