Model Name Information for LED Products

This application note provides information on the model names of LED products.

It also includes past model names, including those that are not recommended LED product type name rules.

LED Product Model Naming Rules: The model names of LED products are classified as follows.

1. **CHIP LED Mono-color**

   1-1   Mono-color (-) Red・Orange・Yellow・Yellow Green・Green(F,P)・IR・Phototransistor・Photo diode

   1-2   Mono-color (No -) Blue(B)・Green(E)・White(WB)

   1-3   Mono-color CSL series Red・Orange・Yellow・Yellow Green・Green・Blue・White・IR

2. **CHIP LED 2color**

   2-1   2color (-) 2color (Yellow Green /Red, Yellow Green /Orange, Yellow Green /Yellow, Yellow/Red, Yellow Green /Red, Green/ Red)

   2-2   2color (No -) 2color (Blue/Red)

   2-3   2color (No -) MSL series 2color (Green/Red, Yellow/Red, Blue/Yellow)

3. **CHIP LED 3color**

   3-1   3color RGB

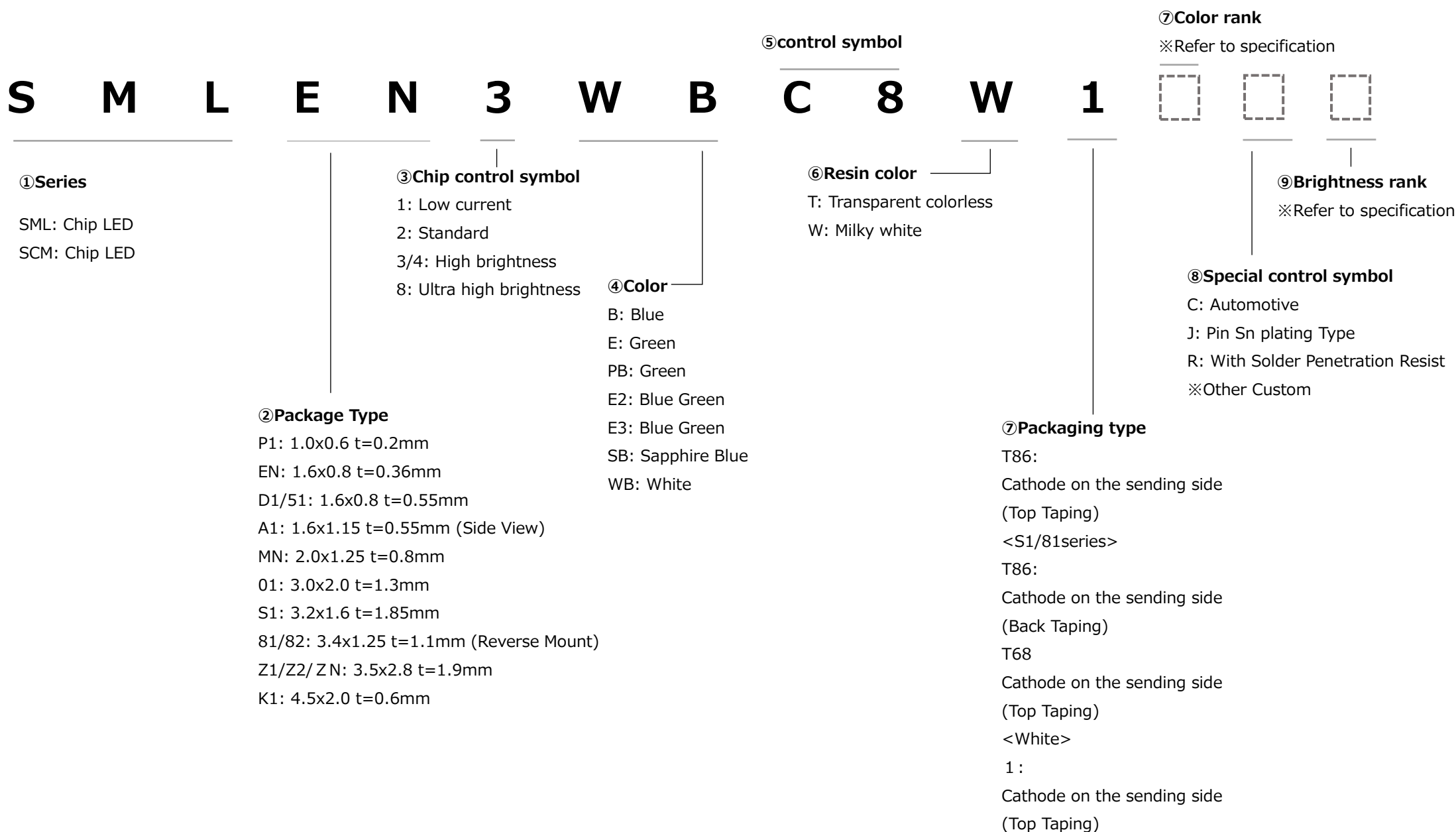   3-2   3color RGB MSL series

4. **LAMP LED**

   4-1   Mono-color (-) Red・Orange・Yellow・Yellow Green・Green

   4-2   Mono-color (No -) Green・Blue・White

1-1 CHIP LED Mono-color (-) Red・Orange・Yellow・Yellow Green・Green(F,P)・IR・Phototransistor・Photo diode

⑤**control symbol**

S M L - D 1 2 V 8 W T 8 6 ☐ ☐

①**Series**
SML: CHIP LED
SCM: CHIP LED

②**Package Type**
P1: 1.0x0.6 t=0.2mm
E1: 1.6x0.8 t=0.36mm
D1: 1.6x0.8 t=0.55mm
A1: 1.6x1.15 t=0.55mm (Side View)
H1/M1:2.0x1.25 t=0.8mm
01: 3.0x2.0 t=1.3mm
01(SCM):3.0x1.5 t=2.2mm
S1: 3.2x1.6 t=1.85mm
81: 3.4x1.25 t=1.1mm (Reverse Mount)
Z1: 3.5x2.8 t=1.9mm

③**Chip control symbol**
0: Low brightness
1: Low current
2: Standard
3/4: High brightness
5: High brightness
(Single rank)

④**Color**
L: Red   Y2: Yellow
V: Red   M2: Yellow Green
U: Red   M: Yellow Green
U2: Red   F: Green
D : Orange   P: Green
Y3: Yellow   R/R2/R3:IR(NIR)
Y: Yellow   T: Phototransistor
W: Yellow   PD: Photo diode

⑥**Resin color**
T: Transparent colorless
W: Milky white
B : Black

⑦**Packaging type**
T86:
Cathode on the sending side
(Top Taping)
<S1/81series>
T86:
Cathode on the sending side
(Back Taping)
T68
Cathode on the sending side
(Top Taping)

⑧**Special control symbol**
C: Automotive
J: Pin Sn plating Type
R: With Solder Penetration Resist
※Other Custom

⑨**Brightness rank**
※Refer to specification

Special case)

S M L - D 1 2 Y 3 W T 8 6

①Series
②Package Type
③Chip control symbol
④Color
⑤Resin color
⑥Packaging type

1-2 CHIP LED Mono-color (No -) Blue(B)・Green(E)・White(WB)

Part number structure:

S M L E N 3 W B C 8 W 1 ☐ ☐ ☐

⑤control symbol

⑦Color rank
※Refer to specification

①Series

SML: Chip LED
SCM: Chip LED

③Chip control symbol

1: Low current
2: Standard
3/4: High brightness
8: Ultra high brightness

⑥Resin color

T: Transparent colorless
W: Milky white

⑨Brightness rank
※Refer to specification

④Color

B: Blue
E: Green
PB: Green
E2: Blue Green
E3: Blue Green
SB: Sapphire Blue
WB: White

⑧Special control symbol

C: Automotive
J: Pin Sn plating Type
R: With Solder Penetration Resist
※Other Custom

②Package Type

P1: 1.0x0.6 t=0.2mm
EN: 1.6x0.8 t=0.36mm
D1/51: 1.6x0.8 t=0.55mm
A1: 1.6x1.15 t=0.55mm (Side View)
MN: 2.0x1.25 t=0.8mm
01: 3.0x2.0 t=1.3mm
S1: 3.2x1.6 t=1.85mm
81/82: 3.4x1.25 t=1.1mm (Reverse Mount)
Z1/Z2/ZN: 3.5x2.8 t=1.9mm
K1: 4.5x2.0 t=0.6mm

⑦Packaging type

T86:
Cathode on the sending side
(Top Taping)
<S1/81series>
T86:
Cathode on the sending side
(Back Taping)
T68
Cathode on the sending side
(Top Taping)
<White>
1 :
Cathode on the sending side
(Top Taping)

1-3 CHIP LED Mono-color CSL series Red・Orange・Yellow・Yellow Green・Green・Blue・White・IR

| C | S | L | 0 | 9 | 0 | 1 | B | T | 1 | □ | □ | □ |

①Series

CSL: Chip LED

②Package Type

04:2.8x 1.15t=0.8mm

07:2.9x2.4t=3.1mm

09:1.6x0.8t=1.24mm

10:1.6x0.8t=1.06mm

11:1.6x0.8t=0.55mm

17:1.6x0.8t=0.55mm

19:1.6x0.8t=0.55mm

21:1.6x0.8t=0.55mm

③Chip control symbol

⑤Resin color

T: Transparent colorless

W: Milky white

⑦Color rank

※Refer to specification

⑨Brightness rank

※Refer to specification

⑧Special control symbol

C: Automotive

※Other Custom

④Color

B: Blue   R:IR(NIR)

V: Red   R3:IR(NIR)

U: Red   S1: IR(SWIR)

D :Orange

Y: Yellow

W: Yellow

M: Yellow Green

E: Green

P: Green

WB: White

⑥Packaging type

1: Cathode on the sending side (Top Taping)

5: Cathode on the sending side (Big reel)

2-1 CHIP LED 2color (-) 2color (Yellow Green /Red, Yellow Green /Orange, Yellow Green /Yellow, Yellow/Red, Yellow Green /Red, Green/ Red)

| S | M | L | - | D | 2 | 2 | M | U | W | T | 8 | 6 | ☐ | ☐ |

①Series
SML: Chip LED

②Package Type
P2: 1.0x 1.0t=0.2mm
52: 1.5x 1.3t=0.6mm
D2: 1.6x0.8 t=0.55mm
01/02: 3.0x 2.0t=1.3mm
82: 3.4x1.25 t=1.1mm
(Reverse Mount)

③Chip control symbol
0: Low brightness
2: Standard
4/5: High brightness

④Color
MV: Yellow Green /Red
MU: Yellow Green /Red
MD: Yellow Green /Orange
MY: Yellow Green /Yellow
YV: Yellow/Red

⑤Resin color
T: Transparent colorless
W: Milky white

⑥Packaging type
T86:
Cathode on the sending side
(Top Taping)
<82series>
T86:
Cathode on the sending side
(Back Taping)

⑦Special control symbol
R: With Solder Penetration Resist
※Other Custom

⑧Brightness rank
※Refer to specification

2-2 CHIP LED 2color (No -) 2color (Blue/Red)

| S | M | L | 5 | 2 | 2 | B | U | N | W | T | 8 | 6 | ☐ | ☐ |

①Series
SML: Chip LED

②Package Type
52:1.3×1.5 t=0.6mm

③Chip control symbol
2: Standard

④Color
BU: Blue/Red

⑤control symbol

⑥Resin color
W: Milky white

⑦Packaging type
T86:
Cathode on the sending side
(Top Taping)

⑧Special control symbol
C: Automotive
※Other Custom

⑨Brightness rank
※Refer to specification

2-3 CHIP LED 2color (No -) MSL series 2color(Green/Red, Yellow/Red, Blue/Yellow)

| M | S | L | 0 | 8 | 0 | 1 | M | U | W | 1 | ☐ | ☐ |

①Series
MSL: Multi-color

②Package Type
08:1.6×1.06×0.8mm
(Side View)

③Chip control symbol

④Color
MU: Green/Red
YV: Yellow/Red
BY: Blue/Yellow

⑤Resin color
W: Milky white

⑥Packaging type
1: Cathode on the sending side
(Side Taping)

⑦Special control symbol

⑧Brightness rank
※Refer to specification

3-1 CHIP LED 3color RGB

⑦**Dominant wavelength rank**
※Refer to specification

⑨**Brightness rank**
※Refer to specification

S M L P 3 4 R G B N 1 W 3 ☐ ☐ ☐

①**Series**
SML: Chip LED

②**Package Type**
P34: 1.0x1.0 t=0.2mm（4pin）
P36: 1.5×1.0 t=0.2mm（6pin）
VN6: 3.5x2.8 t=0.6mm（6pin）

③**Color**
RGB: Red/Green/Blue

④**control symbol**

⑤**Resin**
U: Silicone
W: Epoxy

⑥**Packaging type**
1: Cathode on the sending side
(Top Taping)
3: Cathode on the sending side
(Pitch 2mm)

⑧**Special control symbol**
C: Automotive
※Other Custom

3-2 CHIP LED 3color RGB

⑦**Color rank**
※Refer to specification

⑨**Brightness rank**
※Refer to specification

M S L 0 4 0 2 R G B U 1 ☐ ☐ ☐

①**Series**
MSL: Chip LED

②**Package Type**
04: 1.8x 1.6t=0.5mm (Top View)
01: 6.9x 2.2t=2.15mm (Side View)
06: 2.9x 1.35t=1.0mm (Side View)

③**Chip control symbol**

④**Color**
RGB: Red/Green/Blue

⑤**Resin**
U: Silicone
W: Epoxy

⑥**Packaging type**
1: Cathode on the sending side (Top Taping)
※MSL04 : Feed hole side ③④pin（Top Taping）
※MSL01: Feed hole side ①pin（Side Taping）

⑧**Special control symbol**
C: Automotive
※Other Custom

4-1 LAMP LED Mono-color (-) Red・Orange・Yellow・Yellow Green・Green

| S | L | I | - | 3 | 4 | 3 | V | 8 | R | 3 | F | ☐ | ☐ |

④control symbol

⑦Special control symbol

①Series

SLI:1-Die Circular type, High Brightness LED Lamps

SLR: 1-Die Circular type LED Lamp

SLA: 1-Die Circular type, High Brightness LED Lamps

②Package Type

343: Circular typeφ3
332: Circular typeφ3
342: Circular typeφ3.1
325: Circular typeφ3.2
56: Circular typeφ5
560: Circular typeφ5
570: Circular typeφ5
580: Circular typeφ5
430: Oval typeφ4
322:Flat Disk typeφ3

③Color

L: Red
V: Red
U: Red
U2: Red
D : Orange
Y: Yellow
Y2: Yellow
M: Yellow Green
P: Green

⑤Resin color

R:<Red>Diffused colored
U:<Orange>Diffused colored
Y: <Yellow>Diffused colored
G: <Yellowish green>Diffused colored
C: Transparent colored
T: Transparent colorless

⑥Packaging type

3F: 1-Die straight bulk

T☐☐: Refer to taping specifications in the specification sheet

(T32/T31: Straight

TB7/TC7/TE7/TF7: Forming)

⑧Brightness rank

※Refer to specification

4-2 LAMP LED Mono-color (No -) Green・Blue・White

| S | L | R | 3 | 4 | 3 | W | B | N | 2 | P | T | 2 | ☐ | ☐ | ☐ |

⑦Color rank

※Refer to specification

⑧Special control symbol

①Series

SLR: 1-Die Circular type LED Lam

SLA: 1-Die Circular type, High Brightness LED Lamps

SLD: 1-Die Oval type LED Lamp

②Package Type

343: Circular typeφ3
560: Circular typeφ5
580: Circular typeφ5
430: Oval typeφ4

③Color

E: Green
B: Blue
WB: White

④control symbol

⑤Resin color

T: Transparent colorless
W: Milky white

⑥Packaging type

3F: 1-Die straight bulk

T☐☐:

Refer to taping specifications in the specification sheet

(T32/T31: Straight

TB7/TC7/TE7/TF7: Forming)

< White >

3: 1-Die straight bulk

1/2: Taping

⑨Brightness rank

※Refer to specification

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