



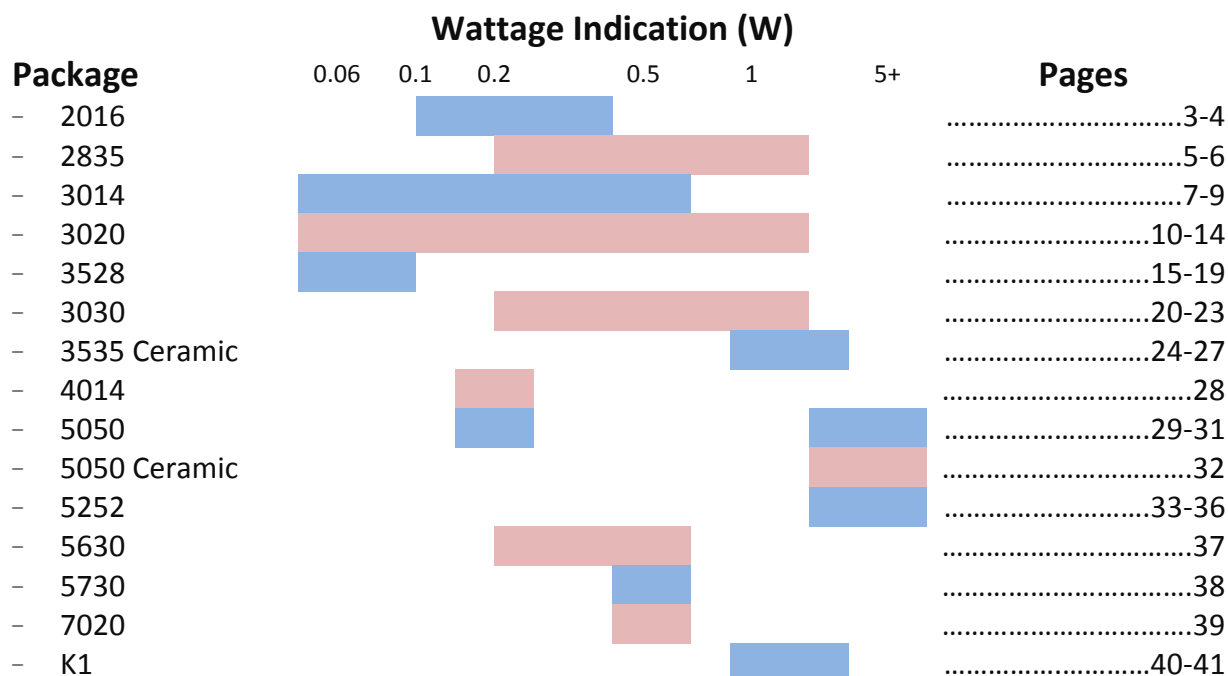
BRIGHTTEK
BRIGHTTEK (EUROPE) LIMITED

BRIGHTTEK

2016 Catalogue

- **SMD: LED for Lighting**

TOP VIEW



EMC LED

2016 0.1W~0.4W



Features:

- Mid Power LED
- Top View
- EMC Package
- CRI 80 (White)
- Various CCT / Colour
- High Efficiency
- High Lumen Output
- Large Emitting Area

Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Backlight
- Decorative Lighting
- Indication Light
- 3C Product

0.2W Electrical & Optical Characteristics (typ. at 3.0V/60mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW20S31	Cool White	6020-7040K	110	25.5	3.0	60	80
NOW20S32	Cool White	5310-6020K	110	25.5	3.0	60	80
NOW20S33	Natural White	4745-5311K	110	25.5	3.0	60	80
NOW20S34	Natural White	3710-4260K	110	25.5	3.0	60	80
NOW20S35	Warm White	2870-3220K	110	24	3.0	60	80
NOW20S36	Warm White	2580-2870K	110	23	3.0	60	80

0.3W Electrical & Optical Characteristics (typ. at 9.5V/30mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW26S26	Cool White	6020-7040K	110	35	9.5	30	80
NOW26S25	Cool White	5310-6020K	110	35	9.5	30	80
NOW26S24	Natural White	4745-5311K	110	35	9.5	30	80
NOW26S23	Natural White	3710-4260K	110	35	9.5	30	80
NOW26S22	Warm White	2870-3220K	110	33	9.5	30	80
NOW26S21	Warm White	2580-2870K	110	32	9.5	30	80

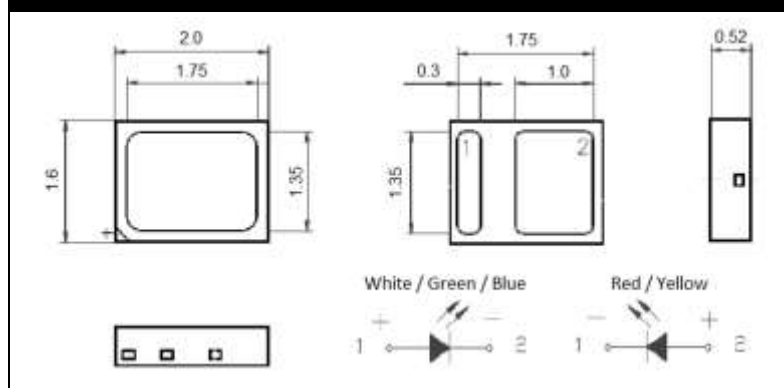
0.4W Electrical & Optical Characteristics (typ. at 6.1V/60mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW26S16	Cool White	6020-7040K	110	48	6.1	60	80
NOW26S15	Cool White	5310-6020K	110	48	6.1	60	80
NOW26S14	Natural White	4745-5311K	110	48	6.1	60	80
NOW26S13	Natural White	3710-4260K	110	48	6.1	60	80
NOW26S12	Warm White	2870-3220K	110	45	6.1	60	80
NOW26S11	Warm White	2580-2870K	110	43	6.1	60	80

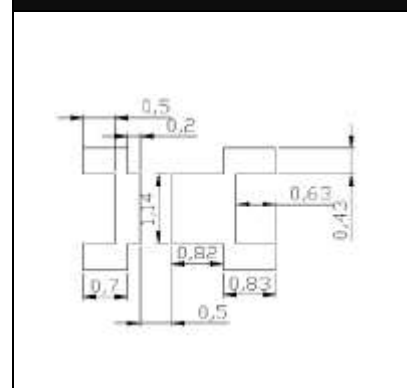
0.1W / 0.2W Colour Electrical & Optical Characteristics (typ. at 40/60mA)

Order Code	Colour	WL (nm)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	I_{MAX} (mA)
NOR20S37	Red	620-630nm	120	5.5	2.3	40	60
NOY20S38	Yellow	585-595nm	120	4	2.3	40	60
NOG20S39	Green	520-530nm	120	13.4	3.1	60	80
NOB20S40	Blue	460-470nm	120	2.7	3.1	60	80

Package Dimensions (mm)



Recommended Solder Pattern



PLCC2 LED

2835 0.2W / 0.5W



Features:

- Mid Power LED
- Top View
- High CRI 80 / 90
- Large Emitting Area
- High C/P Ratio
- High Efficiency
- High Lumen Output
- Compatible Package

Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Decorative Lighting
- Portable Torch
- Architectural Lighting

0.2W CRI 80 Electrical & Optical Characteristics (typ. at 60mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW15S86	Cool White	5710-6530K	120	26	3.2	60	80
NOW15S88	Warm White	2725-3045K	120	26	3.1	60	80
NOW15S87	Natural White	3710-4260K	120	26	3.2	60	80

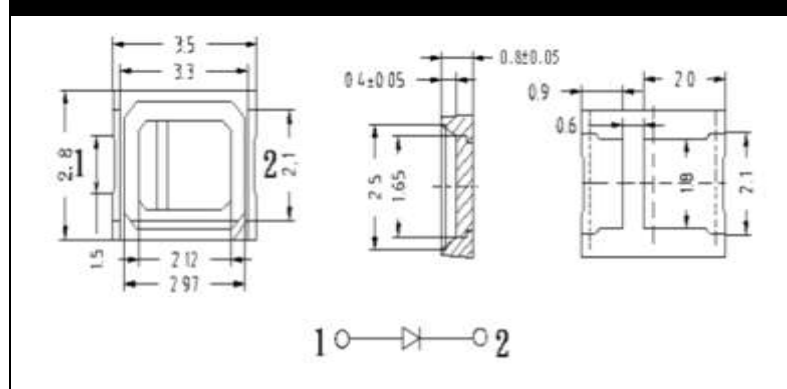
0.2W CRI 90 Electrical & Optical Characteristics (typ. at 60mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW15S68	Cool White	5710-6530K	120	20	3.2	60	90
NOW17S07	Natural White	3710-4260K	120	18	3.2	60	90
NOW17S06	Warm White	2725-3045K	120	19	3.1	60	90

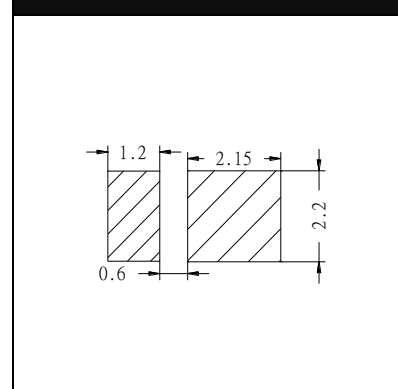
0.5W Electrical & Optical Characteristics (typ. at 150mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW04S10	Cool White	5710-6530K	120	61	3.2	150	70
NOW01S74	Cool White	5710-6530K	120	56	3.2	150	80
NOW00S93	Natural White	3710-4260K	120	53	3.2	150	80
NOW00S71	Warm White	2715-3000K	120	47	3.2	150	80

Package Dimensions (mm)



Recommended Solder Pattern



PLCC2 LED

2835 0.2~1W Colour



Features:

- Mid/High Power LED
- Top View
- Various Colour
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

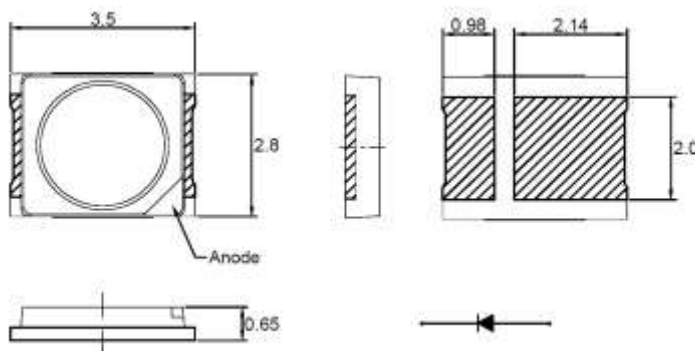
Applications:

- Commercial Lighting
- Decorative Lighting
- Information Board
- Light Strip

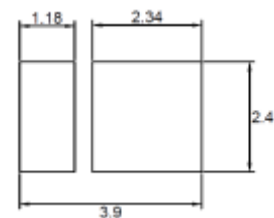
0.1W / 0.2W Colour Electrical & Optical Characteristics (typ. at 40/60mA)

Order Code	Colour	WL (nm)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	I_{MAX} (mA)
NOR15S52	Red	620-630nm	120	36	2.4	350	360
NOY15S53	Yellow	585-595nm	120	18	2.4	150	160
NOY15S54	Yellow	585-595nm	120	36	2.4	350	360
NOG16S14	Green	519-531nm	120	24	3.2	150	160
NOB15S55	Blue	447-459nm	120	2.2	3.2	60	70
NOB16S13	Blue	447-459nm	120	5	3.2	150	160

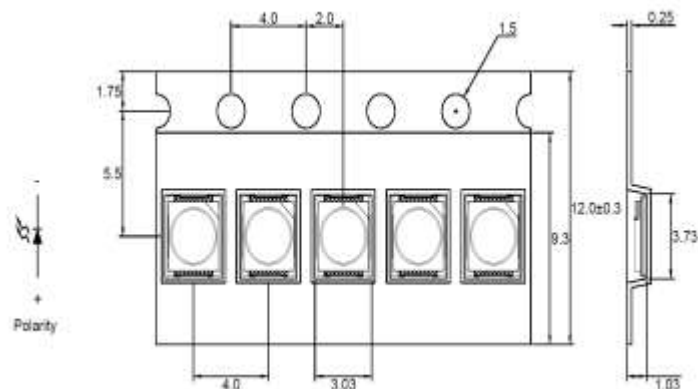
Package Dimensions (mm)



Recommended Solder Pattern



Packing Dimensions



EMC LED

3014 0.2W / 0.5W



Features:

- Mid Power LED
- Top View
- EMC Package
- CRI 80
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Backlight
- Decorative Lighting

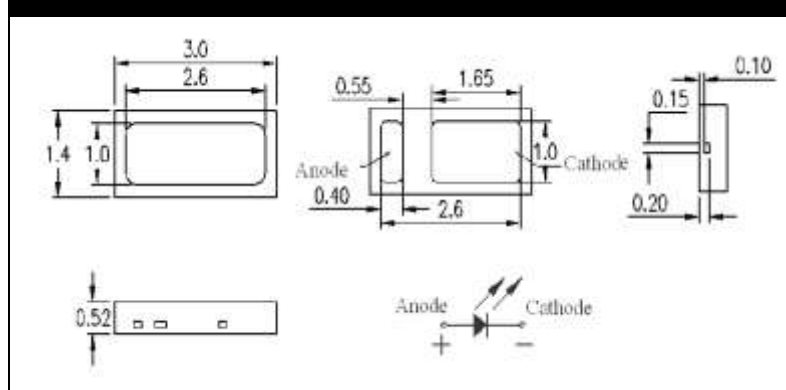
0.2W Electrical & Optical Characteristics (typ. at 2.85V/60mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW20S21	Cool White	6020-7040K	110	28.5	2.85	60	80
NOW20S22	Cool White	5310-6020K	110	28.5	2.85	60	80
NOW20S23	Natural White	4745-5311K	110	28.5	2.85	60	80
NOW20S24	Natural White	3710-4260K	110	28.5	2.85	60	80
NOW20S25	Warm White	2870-3220K	110	27	2.85	60	80
NOW20S26	Warm White	2580-2870K	110	26	2.85	60	80

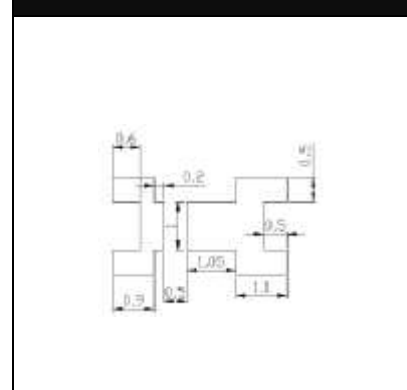
0.5W Electrical & Optical Characteristics (typ. at 3.1V/150mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW20S41	Cool White	6020-7040K	110	62	3.1	150	80
NOW20S42	Cool White	5310-6020K	110	62	3.1	150	80
NOW20S43	Natural White	4745-5311K	110	62	3.1	150	80
NOW20S44	Natural White	3710-4260K	110	62	3.1	150	80
NOW20S45	Warm White	2870-3220K	110	58	3.1	150	80
NOW20S46	Warm White	2580-2870K	110	54	3.1	150	80

Package Dimensions (mm)



Recommended Solder Pattern



PLCC2 LED

3014 0.06~0.2W



Features:

- Mid Power LED
- Top View
- Various CCT
- CRI 80
- High Efficiency
- High Lumen Output
- Compatible Package

Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Decorative Lighting
- Office Lighting
- Portable Torch
- Architectural Lighting

0.06W Electrical & Optical Characteristics (typ. at 20mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW24S90	Cool White	6020-7040K	120	6.5lm	3.2	20	80
NOW24S91	Cool White	5310-6020K	120	6.5lm	3.2	20	80
NOW24S92	Cool White	4745-5310K	120	6.5lm	3.2	20	80
NOW24S93	Natural White	4260-4745K	120	6.5lm	3.2	20	80
NOW24S94	Natural White	3710-4260K	120	6.5lm	3.2	20	80
NOW24S95	Warm White	3220-3710K	120	6lm	3.2	20	80
NOW24S96	Warm White	2870-3220K	120	6lm	3.2	20	80
NOW24S97	Warm White	2580-2870K	120	6lm	3.2	20	80

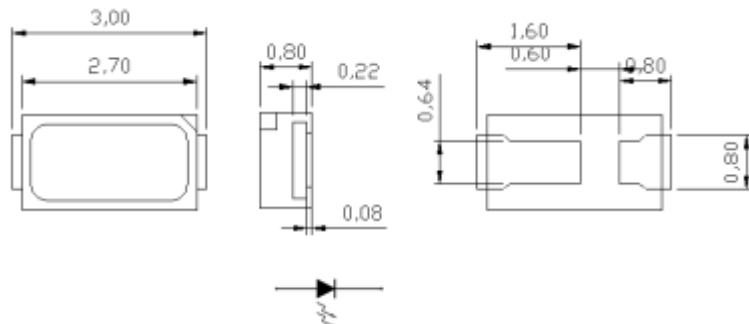
0.1W Electrical & Optical Characteristics (typ. at 30mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW24S80	Cool White	6175-6825K	120	14	3.2	30	80
NOW24S81	Cool White	6020-6530K	120	14	3.2	30	80
NOW24S82	Cool White	5477-6020K	120	14	3.2	30	80
NOW24S83	Natural White	4900-5300K	120	14	3.2	30	80
NOW24S84	Natural White	3897-4223K	120	14	3.2	30	80
NOW24S85	Warm White	3265-3535K	120	13	3.2	30	80
NOW24S86	Warm White	2855-3025K	120	13	3.2	30	80
NOW24S87	Warm White	2645-2805K	120	11	3.2	30	80

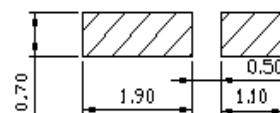
0.2W Electrical & Optical Characteristics (typ. at 150mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW25S00	Cool White	6020-7040K	120	26	3.2	60	80
NOW25S01	Cool White	5310-6020K	120	26	3.2	60	80
NOW25S02	Cool White	4745-5310K	120	26	3.2	60	80
NOW25S03	Natural White	4260-4745K	120	26	3.2	60	80
NOW25S04	Natural White	3710-4260K	120	26	3.2	60	80
NOW25S05	Warm White	3220-3710K	120	24	3.2	60	80
NOW25S06	Warm White	2870-3220K	120	24	3.2	60	80
NOW25S07	Warm White	2580-2870K	120	24	3.2	60	80

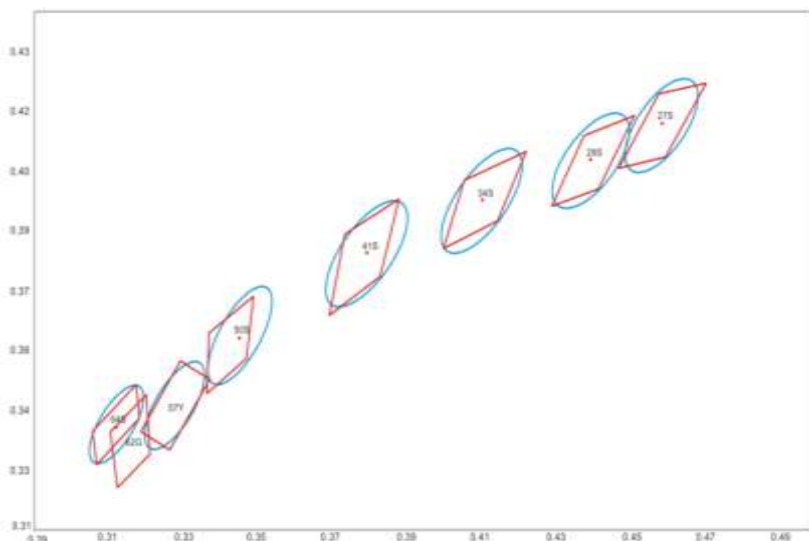
Package Dimensions (mm)



Recommended Solder Pattern



CIE Chromaticity Diagram (0.1W ONLY)

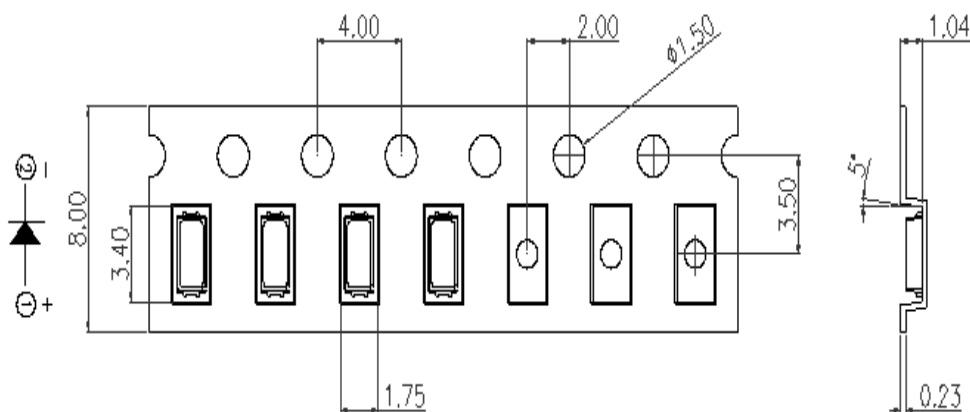


Standard MacAdam Ellipse:

6175-6825K - 5 STEP
6020-6530K - 5 STEP
5477-6020K - 5 STEP
4900-5300K - 5 STEP
3897-4223K - 5 STEP
3265-3535K - 5 STEP
2855-3025K - 5 STEP
2645-2805K - 5 STEP

2~4 STEP may be available, please contact for details.

Packing Dimensions



PLCC2 LED

3020 0.06W



Features:

- Mid Power LED
- Top View
- EMC Package
- CRI 80
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Backlight
- Decorative Lighting

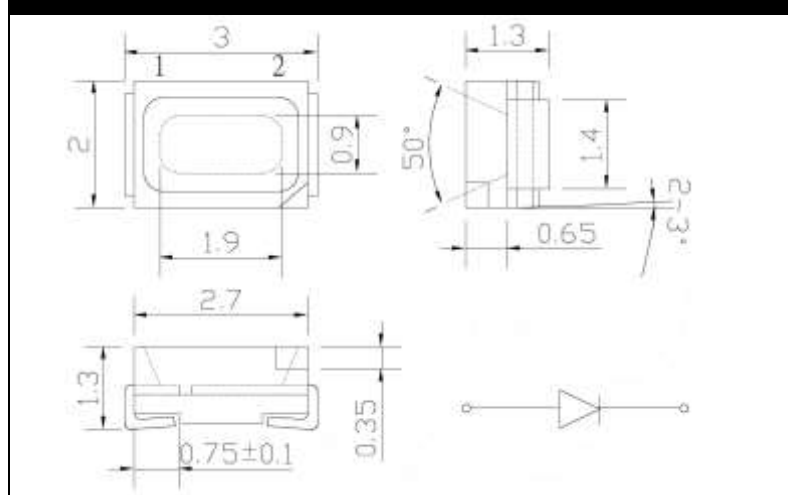
Electrical & Optical Characteristics (typ. at 20mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	I_V (mcd)	V_F (V)	I_F (mA)	I_{MAX} (mA)
NOW03S26	Sky White	39000-242100K	120	700	3	10	30
NOW03S43	Cool White	6000-8400K	120	460	3.1	5	30
NOW03S42	Cool White	5450-6650K	120	2650	3.2	20	30
NOW03S45	Warm White	2760-3160K	120	2150	3.3	20	30

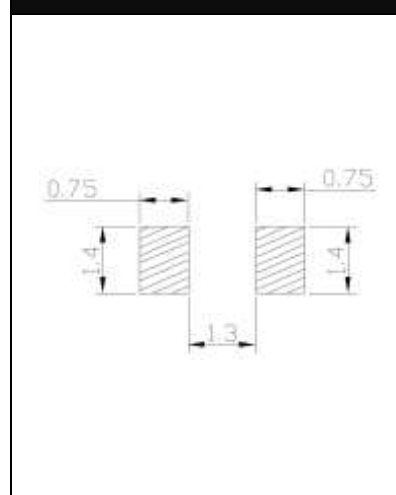
Colour Electrical & Optical Characteristics (typ. at 20mA)

Order Code	Colour	WL (nm)	$2\theta_{1/2}$ (°)	I_V (mcd)	V_F (V)	I_F (mA)	I_{MAX} (mA)
NOR23S17	Red	620-630nm	120	240	2.0	20	30
NOR03S38	Red	620-630nm	120	680	2.1	20	30
NOR05S66	Red	615-630nm	120	700	2.1	20	30
NOY05S70	Yellow	585-597nm	120	210	2.0	20	30
NOY03S28	Yellow	585-594nm	120	800	2.0	20	30
NOG03S08	Green	564-577nm	120	120	2.1	20	30
NOG05S65	Green	520-535nm	120	1300	3.2	20	30
NOB03S35	Blue	462-473nm	120	350	3.2	20	30

Package Dimensions (mm)



Recommended Solder Pattern



PLCC2 LED

3020 0.2W / 0.5W



Features:

- Mid Power LED
- Top View
- CRI 70 / 80
- Various CCT
- High Efficiency
- High Lumen Output
- Compatible Package

Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Decorative Lighting
- Portable Torch
- Architectural Lighting
- Light Strip

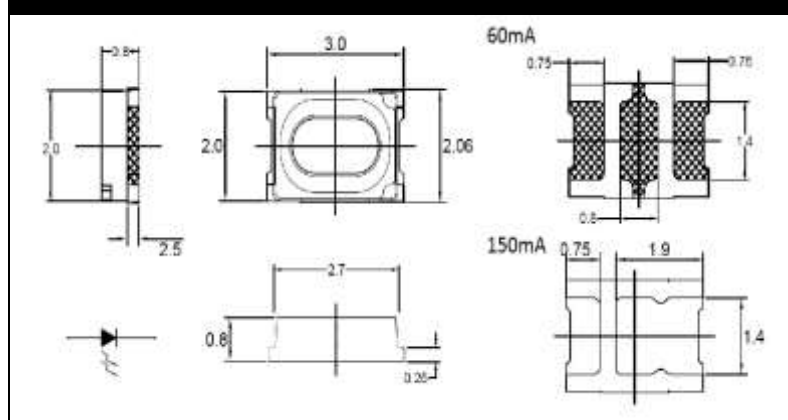
0.2W Electrical & Optical Characteristics (typ. at 3.2V/60mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW02S30	Cool White	5300-6020K	120	23	3.2	60	70
NOW02S31	Cool White	5300-6020K	120	22	3.2	60	80
NOW02S33	Natural White	3000-4260K	120	23	3.2	60	70
NOW02S34	Natural White	3160-4260K	120	22	3.2	60	80
NOW02S35	Warm White	2725-3220K	120	22	3.2	60	70
NOW02S36	Warm White	2725-3220K	120	21	3.2	60	80

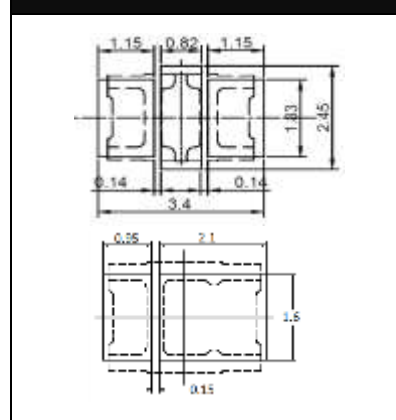
0.5W Electrical & Optical Characteristics (typ. at 3.2V/150mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW02S20	Cool White	5300-6020K	120	65	3.2	150	70
NOW02S21	Cool White	5300-6020K	120	60	3.2	150	80
NOW02S22	Natural White	3000-4260K	120	65	3.2	150	70
NOW02S23	Natural White	3000-4260K	120	60	3.2	150	80
NOW02S24	Warm White	2725-3220K	120	60	3.2	150	70
NOW02S25	Warm White	2725-3220K	120	55	3.2	150	80

Package Dimensions (mm)



Recommended Solder Pattern



PLCC2 LED

3020 0.2~0.5W Colour



Features:

- Mid Power LED
- Top View
- Various Colour
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

Applications:

- Commercial Lighting
- Decorative Lighting
- Light Strip

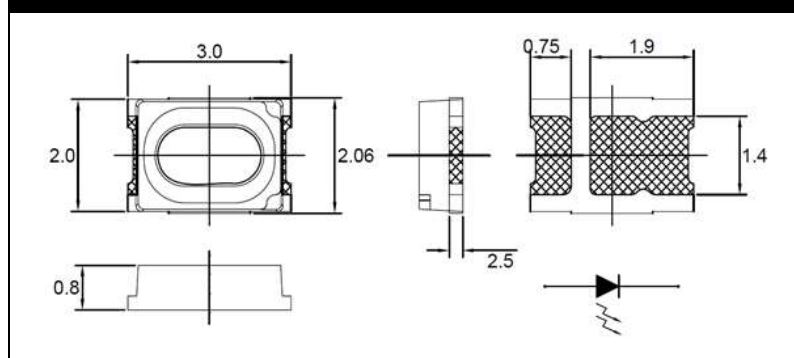
0.2W Colour Electrical & Optical Characteristics (typ. at 60mA)

Order Code	Colour	WL (nm)	$2\theta_{1/2}$ (°)	I_V (mcd)	V_F (V)	I_F (mA)	I_{MAX} (mA)
NOR07S02	Red	620-634nm	120	2000	2.1	60	70
NOA07S01	Amber	620-630nm	120	5000	2.2	60	70
NOY07S03	Yellow	585-598nm	120	2550	2.1	60	70
NOY07S04	Yellow	585-598nm	120	5000	2.2	60	70

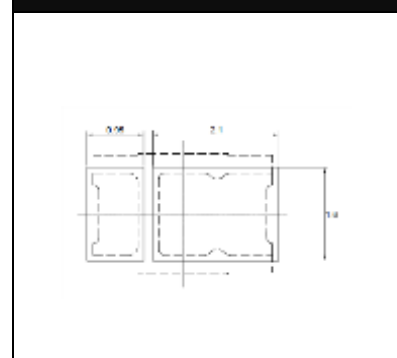
0.5W Colour Electrical & Optical Characteristics (typ. at 150mA)

Order Code	Colour	WL (nm)	$2\theta_{1/2}$ (°)	I_V (mcd)	V_F (V)	I_F (mA)	I_{MAX} (mA)
NOR07S07	Red	620-631nm	120	6500	2.5	150	160
NOY07S08	Yellow	585-598nm	120	5000	2.5	150	160
NOG07S06	Green	520-531nm	120	10000	3.3	150	160
NOB07S05	Blue	447-459nm	120	2550	3.3	150	160

Package Dimensions (mm)



Recommended Solder Pattern



EMC LED

3020 0.5W~1W



Features:

- Mid Power LED
- Top View
- EMC Package
- CRI 80 (White)
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Backlight
- Decorative Lighting

0.5W Electrical & Optical Characteristics (typ. at 3.1V/150mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW20S61	Cool White	6020-7040K	110	70	3.1	150	80
NOW20S62	Cool White	5310-6020K	110	70	3.1	150	80
NOW20S63	Natural White	4745-5311K	110	70	3.1	150	80
NOW20S64	Natural White	3710-4260K	110	70	3.1	150	80
NOW20S65	Warm White	2870-3220K	110	66	3.1	150	80
NOW20S66	Warm White	2580-2870K	110	62	3.1	150	80

0.5W Electrical & Optical Characteristics (typ. at 6.2V/80mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW20S51	Cool White	6020-7040K	110	66	6.2	80	80
NOW20S52	Cool White	5310-6020K	110	66	6.2	80	80
NOW20S53	Natural White	4745-5311K	110	66	6.2	80	80
NOW20S54	Natural White	3710-4260K	110	66	6.2	80	80
NOW20S55	Warm White	2870-3220K	110	62	6.2	80	80
NOW20S56	Warm White	2580-2870K	110	62	6.2	80	80

0.5W Electrical & Optical Characteristics (typ. at 19.0V/30mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW20S71	Cool White	6020-7040K	110	70	19.0	30	80
NOW20S72	Cool White	5310-6020K	110	70	19.0	30	80
NOW20S73	Natural White	4745-5311K	110	70	19.0	30	80
NOW20S74	Natural White	3710-4260K	110	70	19.0	30	80
NOW20S75	Warm White	2870-3220K	110	66	19.0	30	80
NOW20S76	Warm White	2580-2870K	110	62	19.0	30	80

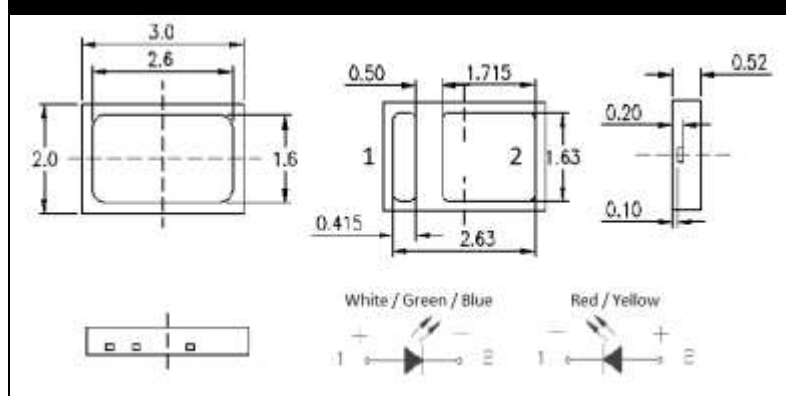
0.5W Colour Electrical & Optical Characteristics (typ. at 150mA)

Order Code	Colour	WL (nm)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	I_{MAX} (mA)
NOR20S57	Red	620-630nm	150	17	2.2	150	200
NOY20S58	Yellow	585-600nm	150	17	2.2	150	200
NOG20S59	Green	520-535nm	150	38	3.0	150	200
NOB20S60	Blue	455-470nm	150	10	3.1	150	200

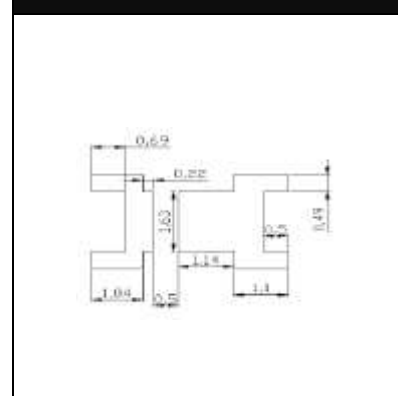
1W Electrical & Optical Characteristics (typ. at 9.6V/100mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW26S06	Cool White	6020-7040K	110	113	9.6	100	80
NOW26S05	Cool White	5310-6020K	110	113	9.6	100	80
NOW26S04	Natural White	4745-5311K	110	113	9.6	100	80
NOW26S03	Natural White	3710-4260K	110	113	9.6	100	80
NOW26S02	Warm White	2870-3220K	110	107	9.6	100	80
NOW26S01	Warm White	2580-2870K	110	102	9.6	100	80

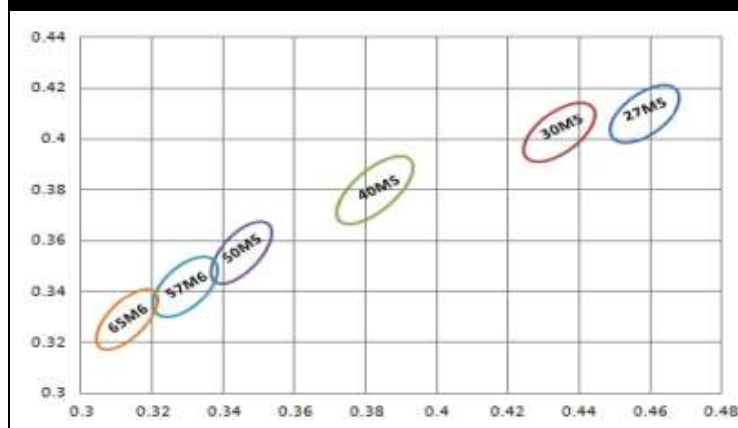
Package Dimensions (mm)



Recommended Solder Pattern



CIE Chromaticity Diagram



Standard MacAdam Ellipse:

6020-7040K - 6 STEP
 5310-6020K - 6 STEP
 4745-5311K - 5 STEP
 3710-4260K - 5 STEP
 2870-3220K - 5 STEP
 2580-2870K - 5 STEP

2~4 STEP may be available, please contact for details.

PLCC2 LED

3528 1.0t



Features:

- Lower Power LED
- Low Height
- Top View
- Various CCT
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

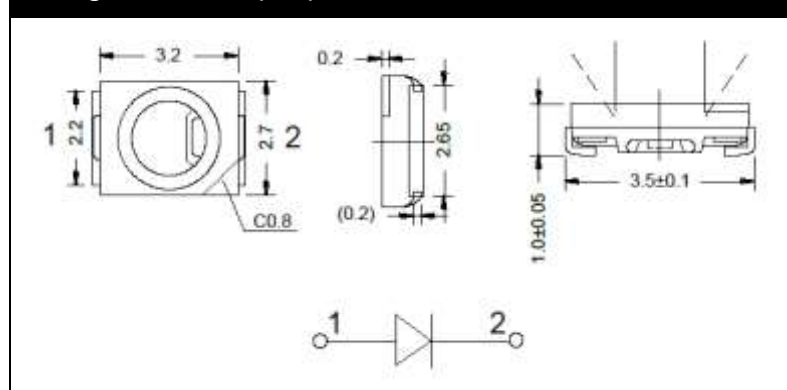
Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Decorative Lighting
- Portable Torch
- Architectural Lighting
- Light Bulb

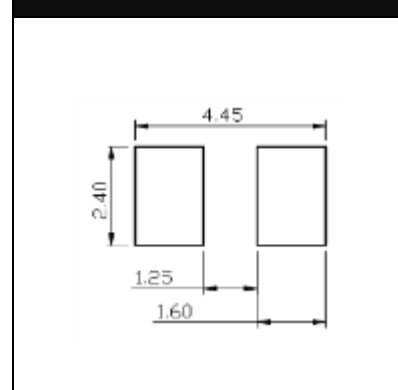
Electrical & Optical Characteristics (typ. at 20mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	I_V (mcd)	V_F (V)	I_F (mA)	CRI
NOW13S35	Sky White	8400-16000K	120	7.8	2500	3.2	20	70
NOW19S34	Cool White	6000-7400K	120	7.8	2500	3.1	20	85
NOW03S47	Natural White	4600-5450K	120	7.4	2350	3.1	20	85
NOW19S36	Natural White	4240-4600K	120	7.2	2300	3.1	20	85
NOW13S42	Natural White	3920-4240K	120	5.8	1850	3.3	20	85
NOW13S43	Warm White	3400-3640K	120	7.0	2250	3.1	20	85
NOW19S35	Warm White	3400-3640K	120	6.5	2080	3.0	20	90
NOW13S48	Warm White	2960-3160K	120	7.0	2250	3.1	20	85
NOW19S37	Warm White	2760-3160K	120	7.7	2450	3.3	20	80
NOW13S44	Warm White	2580-2760K	120	6.6	2100	3.1	20	85
NOW13S50	Warm White	2230-2400K	120	5.8	1850	3.1	20	85

Package Dimensions (mm)



Recommended Solder Pattern



PLCC2 LED

3528 1.9t



Features:

- Lower Power LED
- Top View
- Various CCT
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

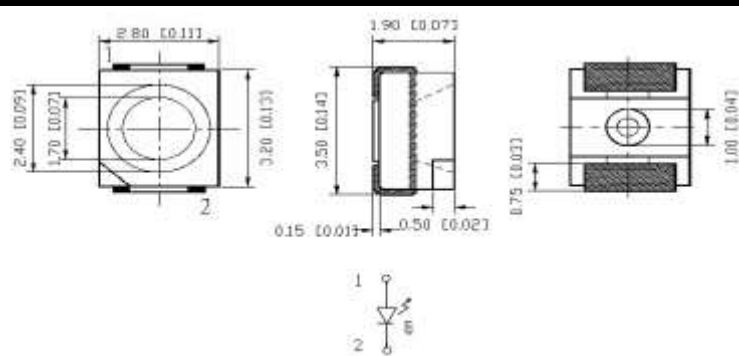
Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Decorative Lighting
- Portable Torch
- Architectural Lighting

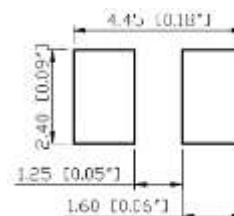
Electrical & Optical Characteristics (typ. at 20mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	I_V (mcd)	V_F (V)	I_F (mA)	CRI
NOW13S32	Sky White	8400-25000K	120	5.8	1850	3.2	20	---
NOW03S34	Cool White	5450-7400K	120	7.0	2250	3.2	20	CRI 70
NOW13S26	Natural White	4200-4700K	120	7.2	2300	3.2	20	CRI 70
NOW03S77	Warm White	2760-3160K	120	5.8	1850	3.2	20	CRI 80
NOW03S07	Warm White	2400-2760K	120	6.0	2050	3.2	20	CRI 70
NOW13S31	Warm White	2100-2230K	120	5.8	1850	3.2	20	---

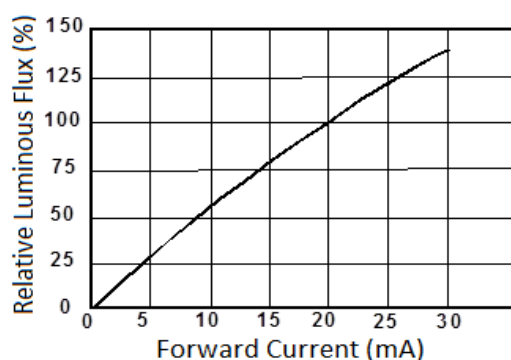
Package Dimensions (mm)



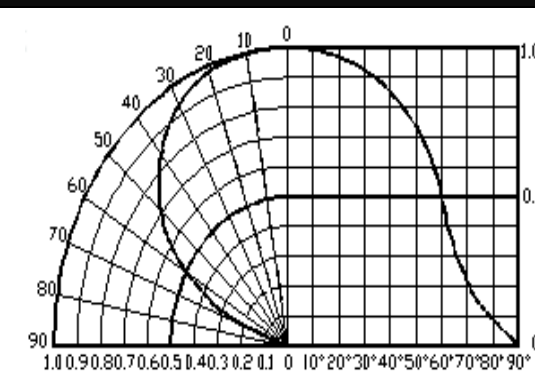
Recommended Solder Pattern



Relative Luminous Flux v.s. Forward Current



Viewing Angle



PLCC2 LED

3528 1.9t Colour



Features:

- Low Power LED
- Top View
- Various Colour
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

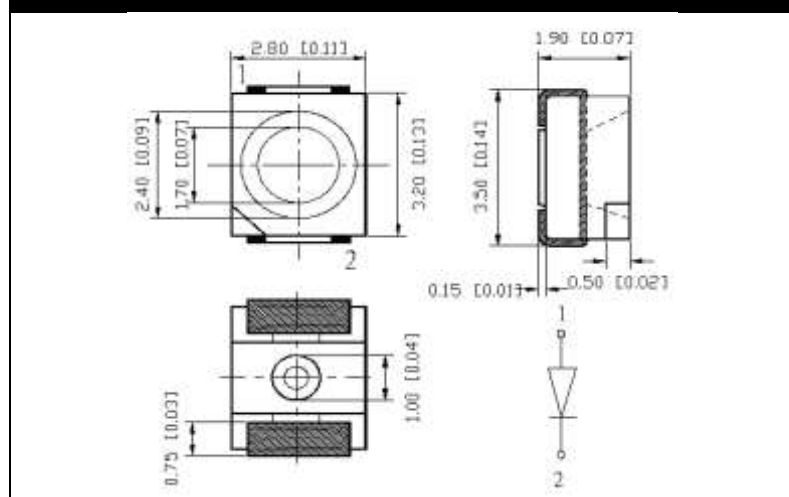
Applications:

- Commercial Lighting
- Decorative Lighting
- Light Strip
- Information Board
- LED Display

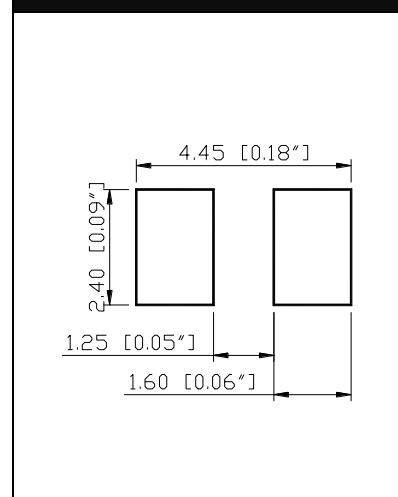
Colour Electrical & Optical Characteristics

Order Code	Colour	WL (nm)	$2\theta_{1/2}$ (°)	I_V (mcd)	V_F (V)	I_F (mA)	I_{MAX} (mA)
NOR13S11	Red	650-670nm	120	210	1.9	20	30
NOR03S55	Red	620-630nm	120	210	2.0	20	30
NOR01S90	Red	620-630nm	120	550	1.9	20	50
NOR02S73	Red	620-630nm	120	780	1.9	20	30
NOA02S50	Amber	602-609nm	120	270	1.9	20	50
NOA13S13	Amber	600-612nm	120	780	1.9	20	30
NOY03S59	Yellow	585-597nm	120	210	2.0	20	30
NOY05S78	Yellow	585-594nm	120	800	1.9	20	30
NOG05S74	Green	567-577nm	120	90	1.9	20	30
NOG00S69	Green	520-535nm	120	1000	3.2	20	30
NOG01S89	Green	520-535nm	120	1700	3.2	20	30
NOB03S53	Blue	467-478nm	120	350	3.2	20	30
NOB01S91	Blue	462-473nm	120	350	3.2	20	30

Package Dimensions (mm)



Recommended Solder Pattern



PLCC4 LED

3528 1.9t Colour / RGB



Features:

- Mid Power LED
- Top View
- Various Colour
- Dual Colours / RGB
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

Applications:

- Commercial Lighting
- Decorative Lighting
- Information Board
- LED Display
- Light Strip

White Electrical & Optical Characteristics (typ. at 50mA) White Package

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	I_V (mcd)	V_F (V)	I_F (mA)
N0W19S78	Cool White	4700-7050K	120	17.9	5700	3.2	50

Colour Electrical & Optical Characteristics (typ. at 50mA) White Package

Order Code	Colour	WL (nm)	$2\theta_{1/2}$ (°)	I_V (mcd)	V_F (V)	I_F (mA)	I_{MAX} (mA)
N0R19S77	Red	630-650nm	120	170	2.1	50	55
N0R19S75	Red	615-630nm	120	2050	2.1	50	55
N0A19S72	Amber	600-610nm	120	2400	2.7	50	55
N0Y19S79	Yellow	585-595nm	120	1600	2.1	50	55
N0G19S74	Green	515-525nm	120	1550	3.6	50	55
N0B19S73	Blue	465-475nm	120	585	3.4	50	55

Dual Colours Electrical & Optical Characteristics White Package

Order Code	Colour	WL (nm)	$2\theta_{1/2}$ (°)	I_V (mcd)	V_F (V)	I_F (mA)
N0D01S73	Red/Green	625/570	120	210/90	1.9/2.1	20/20
N0D03S62	Red/Green	627/527	120	450/900	1.9/3.2	20/20
N0D17S32	Red/Blue	625/470	120	210/270	1.9/3.2	20/20
N0D18S09	Red/Yellow	620/590	120	220/200	2.0/2.0	20/20
N0D18S08	Amber/Green	605/570	120	240/100	2.0/2.0	20/20

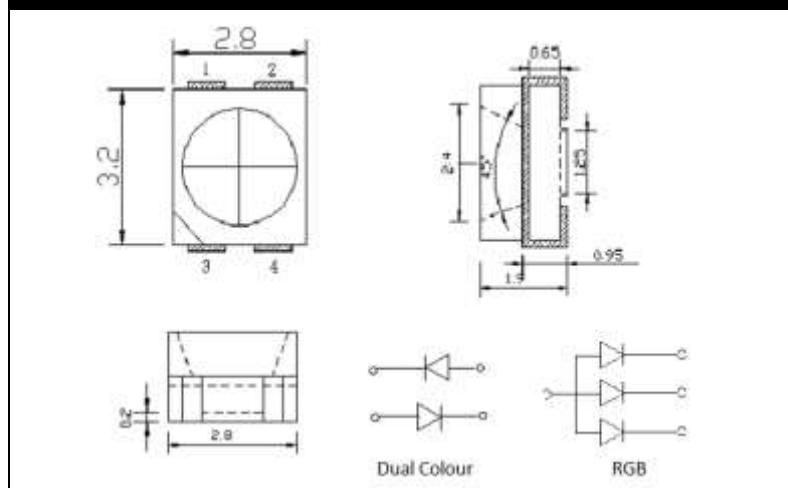
RGB Electrical & Optical Characteristics White Package

Order Code	Colour	WL (nm)	$2\theta_{1/2}$ (°)	I_V (mcd)	V_F (V)	I_F (mA)
N0M18S11	Red/Green/Blue	620/525/470	120	230/970/150	2.0/3.1/3.1	20/20/20

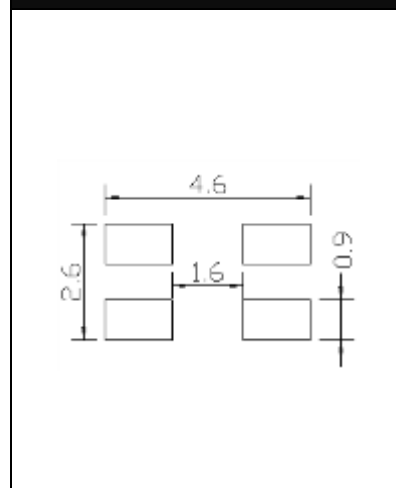
RGB Electrical & Optical Characteristics Black Surface Package

Order Code	Colour	WL (nm)	$2\theta_{1/2}$ (°)	I_V (mcd)	V_F (V)	I_F (mA)
N0M03S72BS	Red/Green/Blue	622/527/467	120	235/1000/235	2.1/3.2/3.2	20/20/20

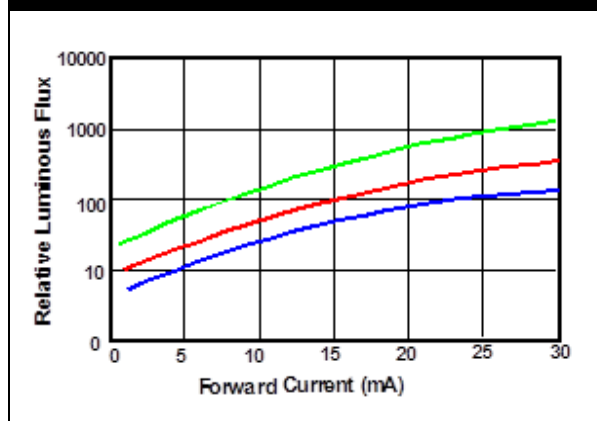
Package Dimensions (mm)



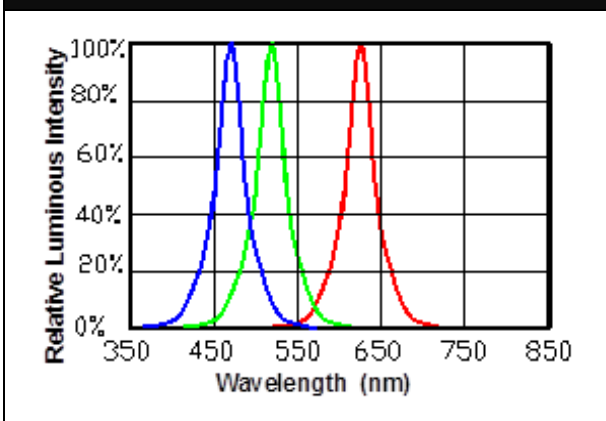
Recommended Solder Pattern



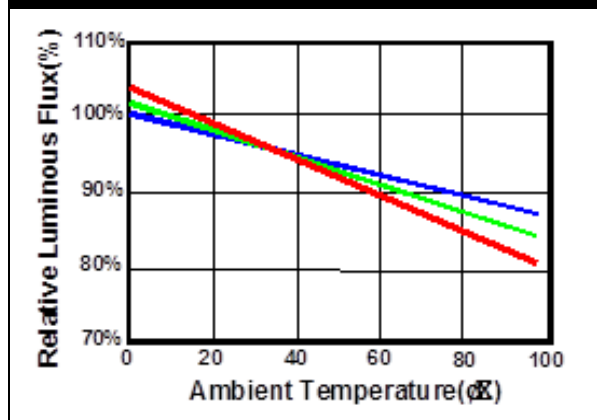
Relative Luminous Flux v.s. Forward Current



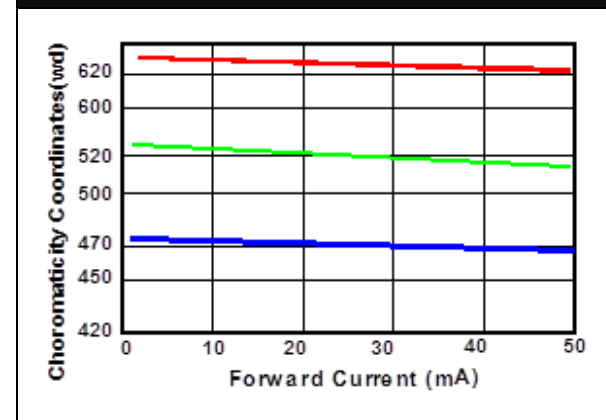
Relative Spectral Distribution



Relative Luminous Flux v.s. Ambient Temperature



Wavelength v.s. Forward Current



PLCC2 LED

3030 1W



Features:

- 1W High Power
- Top View
- CRI 80
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

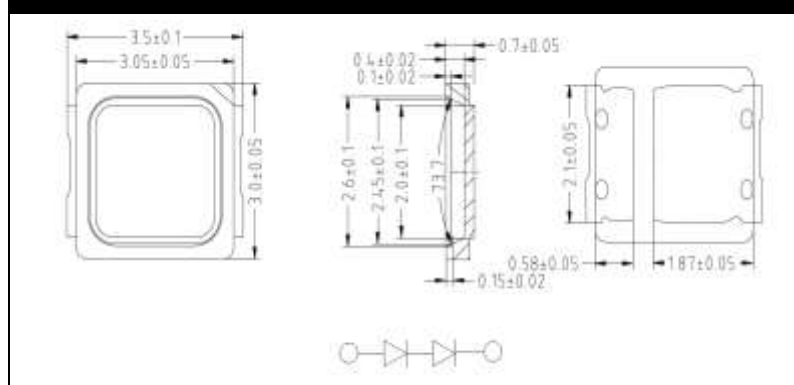
Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Light Bar
- Light Strip
- Wall Washer
- Architectural Lighting

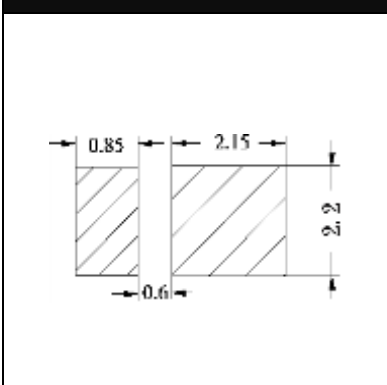
Electrical & Optical Characteristics (typ. at 150mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW08S39	Cool White	5710-6530K	120	118	6.4	150	80
NOW15S89	Natural White	3710-4260K	120	118	6.4	150	80
NOW15S90	Warm White	2725-3045K	120	108	6.4	150	80

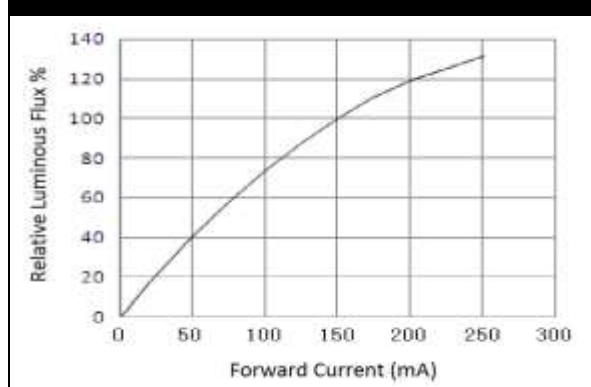
Package Dimensions (mm)



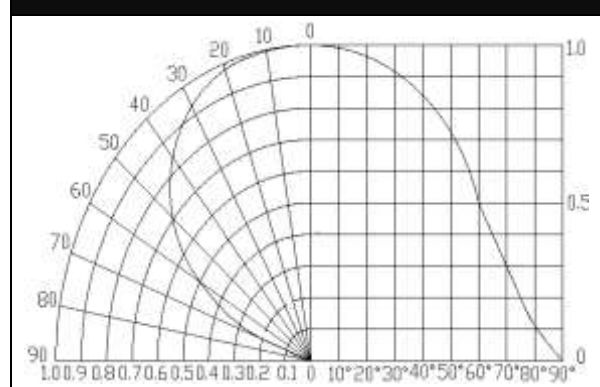
Recommended Solder Pattern



Relative Luminous Flux v.s. Forward Current



Viewing Angle



EMC LED

3030 0.2W~1.25W



Features:

- High Power LED
- Top View
- EMC Package
- CRI 80
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Backlight
- Decorative Lighting
- Wall Washer
- Architectural Lighting

0.2W Electrical & Optical Characteristics (typ. at 2.8V/65mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW26S46	Cool White	6020-7040K	110	34	2.8	65	80
NOW26S45	Cool White	5310-6020K	110	34	2.8	65	80
NOW26S44	Natural White	4745-5311K	110	34	2.8	65	80
NOW26S43	Natural White	3710-4260K	110	34	2.8	65	80
NOW26S42	Warm White	2870-3220K	110	32	2.8	65	80
NOW26S41	Warm White	2580-2870K	110	31	2.8	65	80

1W Electrical & Optical Characteristics (typ. at 6.2V/150mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW20S91	Cool White	6020-7040K	110	131	6.2	150	80
NOW20S92	Cool White	5310-6020K	110	131	6.2	150	80
NOW20S93	Natural White	4745-5311K	110	131	6.2	150	80
NOW20S94	Natural White	3710-4260K	110	131	6.2	150	80
NOW20S95	Warm White	2870-3220K	110	124	6.2	150	80
NOW20S96	Warm White	2580-2870K	110	119	6.2	150	80

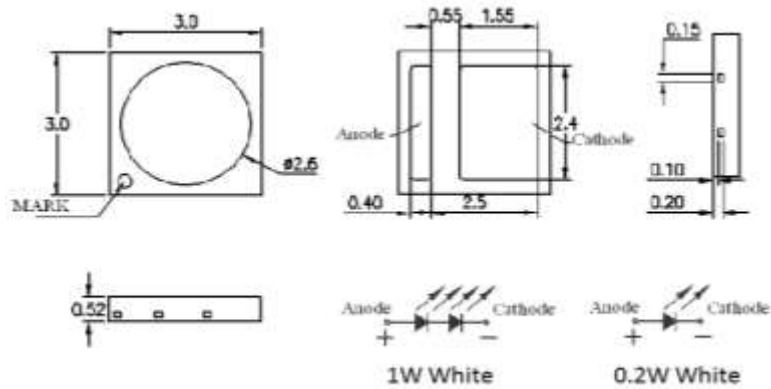
1.25W Electrical & Optical Characteristics (typ. at 50.0V/25mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW21S01	Cool White	6020-7040K	110	148	50.0	25	80
NOW21S02	Cool White	5310-6020K	110	148	50.0	25	80
NOW21S03	Natural White	4745-5311K	110	148	50.0	25	80
NOW21S04	Natural White	3710-4260K	110	148	50.0	25	80
NOW21S05	Warm White	2870-3220K	110	139	50.0	25	80
NOW21S06	Warm White	2580-2870K	110	139	50.0	25	80

Colour Electrical & Optical Characteristics (typ. at 350mA)

Order Code	Colour	WL (nm)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	I_{MAX} (mA)
NOR20S89	Red	620-630nm	120	44	2.2	350	500
NOG20S88	Green	520-535nm	120	74	3.0	350	500
NOB20S87	Blue	455-470nm	120	19	3.1	350	500

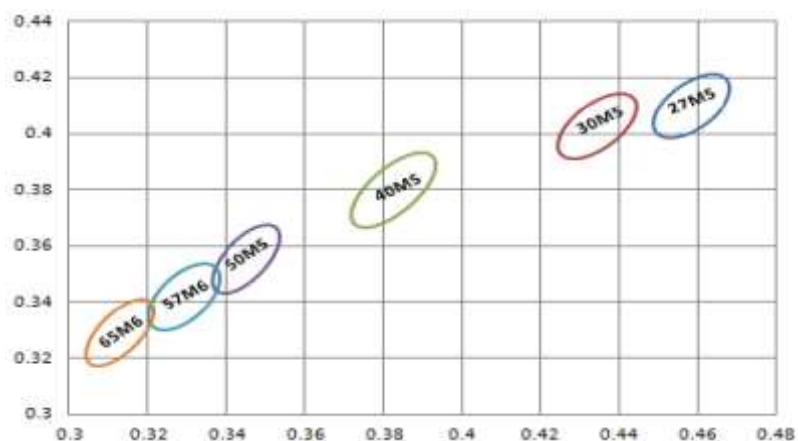
Package Dimensions (mm)



Recommended Solder Pattern



CIE Chromaticity Diagram

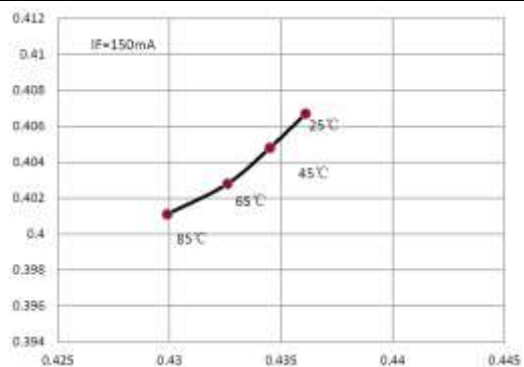


Standard MacAdam Ellipse:

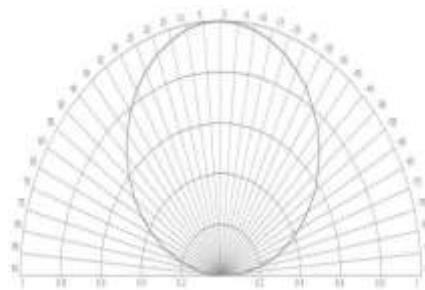
6020-7040K - 6 STEP
5310-6020K - 6 STEP
4745-5311K - 5 STEP
3710-4260K - 5 STEP
2870-3220K - 5 STEP
2580-2870K - 5 STEP

2~4 STEP may be available, please contact for details.

Ambient Temperature v.s. CIE X, Y Shift



Viewing Angle



SMC LED

3030 0.2~1W Colour



Features:

- Mid / High Power LED
- Top View
- EMC Package
- Narrow Viewing Angle
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

Applications:

- Commercial Lighting
- Decorative Lighting
- Information Board
- Automotive
- Architectural Lighting

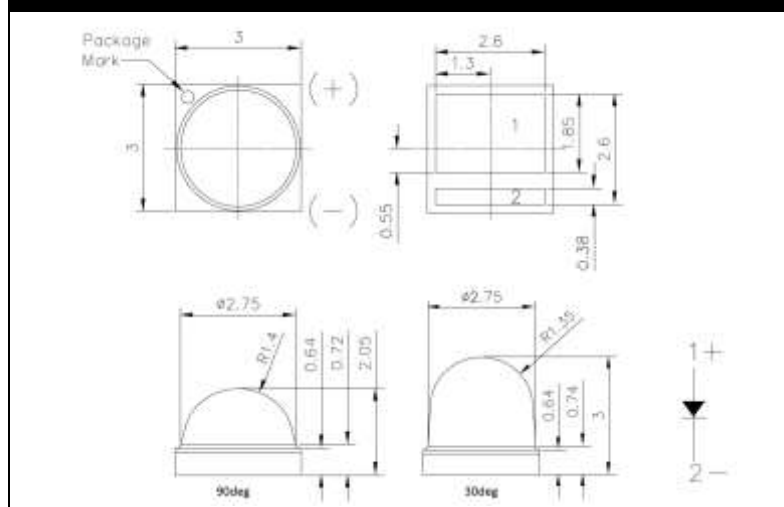
Colour Electrical & Optical Characteristics (typ. at 60mA)

Order Code	Colour	WL (nm)	2 $\theta_{1/2}$ (°)	Φ_V (lm)	V _F (V)	I _F (mA)	I _{MAX} (mA)
NOR25S51	Red	620-630nm	30	60	2.2	350	500
NOR26S73	Red	620-630nm	30	11	2.3	70	100
NOR25S49	Red	612-620nm	30	12	2.3	70	100
NOY26S72	Yellow	585-595nm	30	12	2.3	70	100
NOG25S52	Green	520-530nm	30	100	3.2	350	500
NOB25S53	Blue	460-470nm	30	28	3.2	350	500

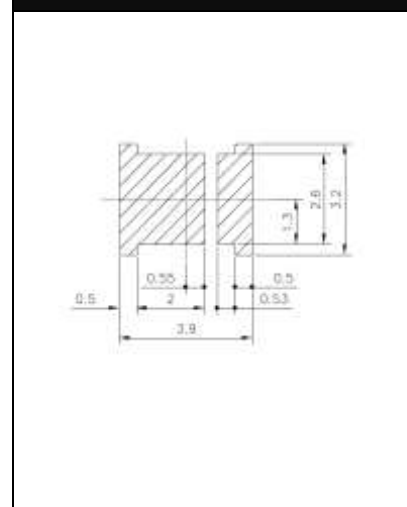
Colour Electrical & Optical Characteristics (typ. at 60mA)

Order Code	Colour	WL (nm)	2 $\theta_{1/2}$ (°)	Φ_V (lm)	V _F (V)	I _F (mA)	I _{MAX} (mA)
NOR25S54	Red	620-630nm	90	60	2.2	350	500
NOG25S55	Green	520-530nm	90	100	3.2	350	500
NOB25S56	Blue	460-470nm	90	28	3.2	350	500

Package Dimensions (mm)



Recommended Solder Pattern



Ceramic LED

3535 Flip-Chip 1~3W



Features:

- High Power LED
- Top View
- Ceramic Package
- Flip-Chip
- Eutectic Die-Bonding
- High Efficiency
- High Lumen Output
- Compatible Package

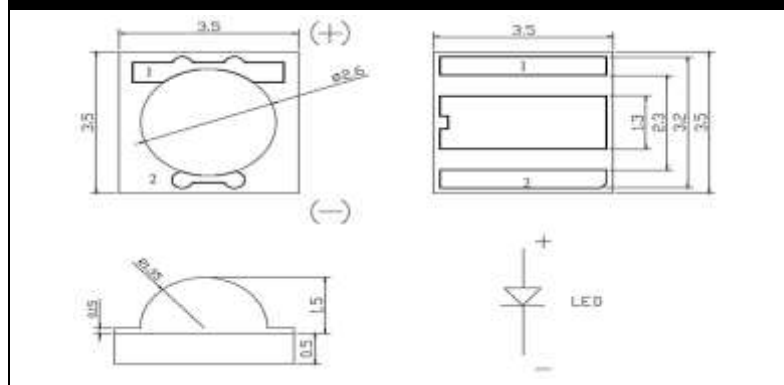
Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Outdoor Lighting
- Street Light
- Decorative Lighting
- Portable Torch
- Architectural Lighting

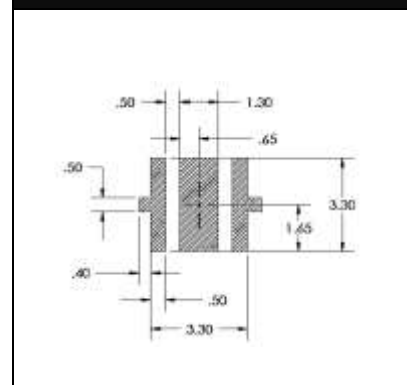
Electrical & Optical Characteristics (typ. at 350/700/1000mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW10S00	Cool White	5710-6530K	120	120/210/270	3.0	350/700/1000	80
NOW09S99	Cool White	5710-6530K	120	130/227/292	3.0	350/700/1000	70
NOW16S69	Cool White	5310-6020K	120	120/210/270	3.2	350/700/1000	80
NOW10S01	Cool White	4746-5310K	120	130/227/292	3.0	350/700/1000	70
NOW10S03	Natural White	3710-4260K	120	110/192/247	3.0	350/700/1000	80
NOW10S02	Natural White	3710-4260K	120	130/227/292	3.0	350/700/1000	70
NOW09S09	Warm White	2725-3045K	120	110/192/247	3.0	350/700/1000	80
NOW10S05	Warm White	1980-2240K	120	80/140/180	3.0	350/700/1000	70

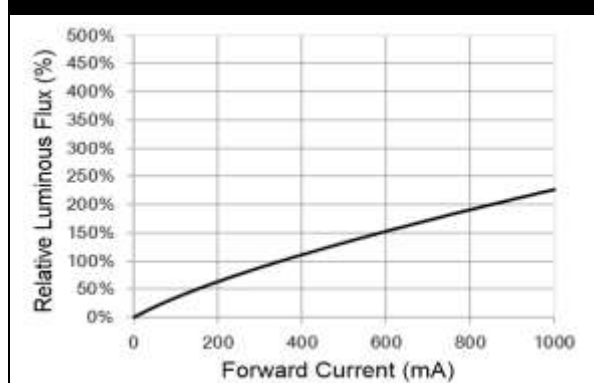
Package Dimensions (mm)



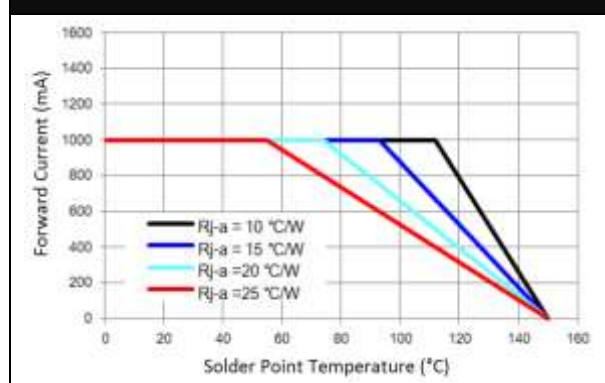
Recommended Solder Pattern



Relative Luminous Flux v.s. Forward Current

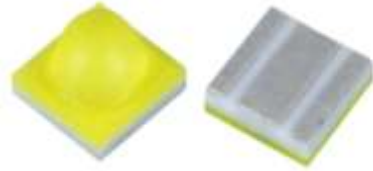


Forward Current Derating Curve



Ceramic LED

3535 1W White



Features:

- High Power LED
- Top View
- Ceramic Package
- Low Thermal Resistance
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

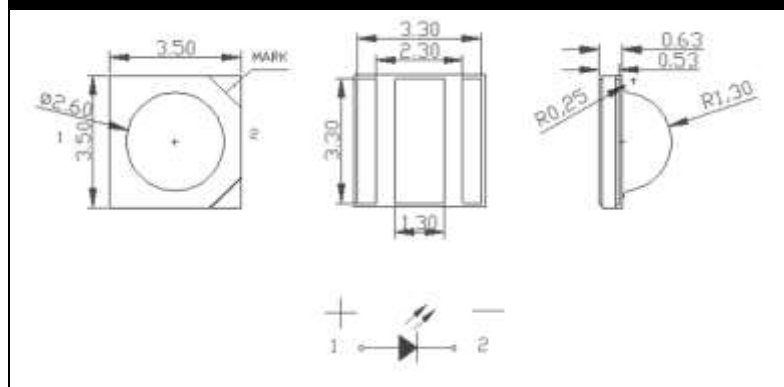
Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Outdoor Lighting
- Backlight
- Decorative Lighting
- Portable Torch
- Architectural Lighting

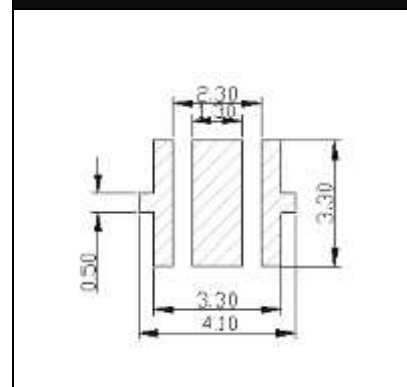
Electrical & Optical Characteristics (typ. at 350mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW21S21	Cool White	6020-7040K	120	164	3.2	350	70
NOW21S22	Cool White	5700-6500K	120	164	3.2	350	70
NOW21S23	Cool White	5310-6020K	120	164	3.2	350	70
NOW21S24	Natural White	4745-5311K	120	164	3.2	350	70
NOW21S25	Natural White	3710-4260K	120	164	3.2	350	70
NOW21S26	Warm White	2870-3220K	120	156	3.2	350	70
NOW21S27	Warm White	2580-2870K	120	148	3.2	350	70

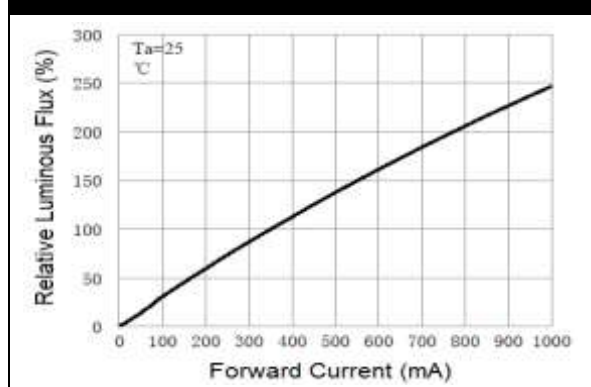
Package Dimensions (mm)



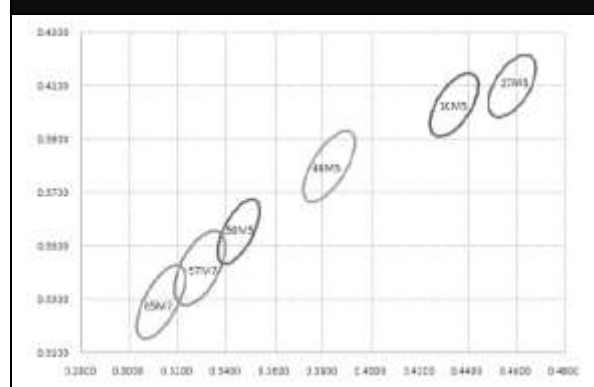
Recommended Solder Pattern



Relative Luminous Flux v.s. Forward Current



CIE Bin Structure



Ceramic LED

3535 1.2W Dual White



Features:

- High Power LED
- Top View
- Ceramic Package
- Dual Whites
- Eutectic Die-Bonding
- High Efficiency
- High Lumen Output
- Compatible Package

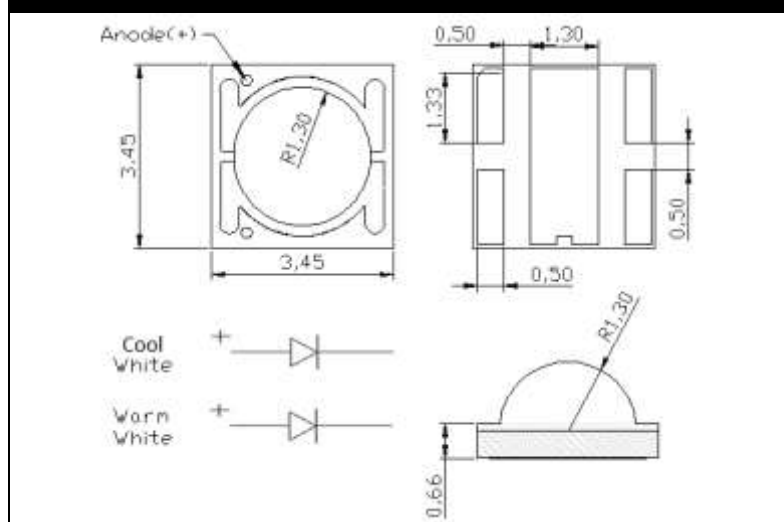
Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Outdoor Lighting
- Decorative Lighting
- Portable Torch
- Architectural Lighting
- Street Light

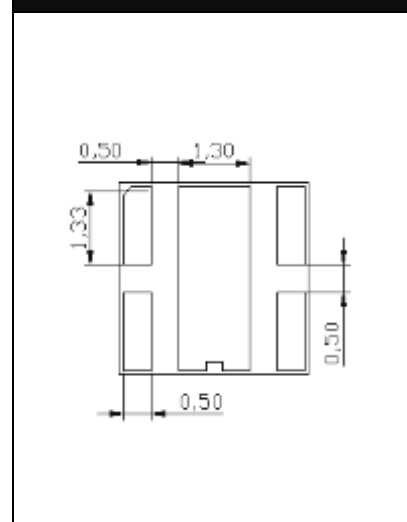
Colour Electrical & Optical Characteristics (typ. at 20mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)
N0D23S45	Cool White / Warm White	6000/3000K	130	60/45	3.2/3.2	200*2

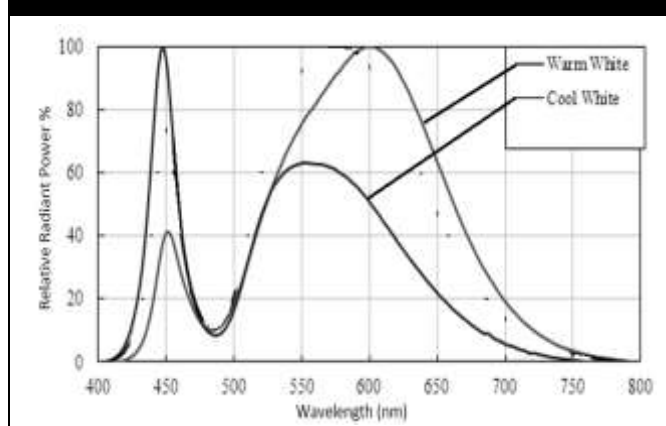
Package Dimensions (mm)



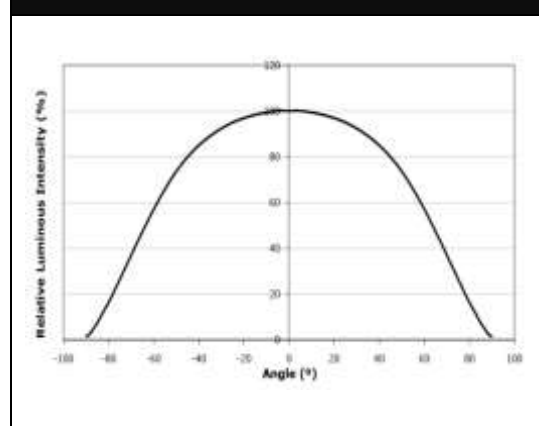
Recommended Solder Pattern



Relative Spectral Distribution



Viewing Angle



Ceramic LED

3535 1~2W Colour



Features:

- High Power LED
- Top View
- Ceramic Package
- High Current Input
- Various Colours
- High Efficiency
- High Lumen Output
- Compatible Package

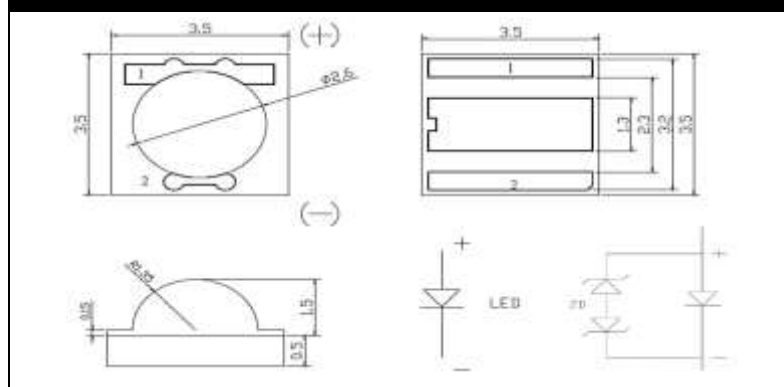
Applications:

- Commercial Lighting
- Decorative Lighting
- Portable Torch
- Architectural Lighting
- Street Light
- Wall Washer
- Stage Lighting

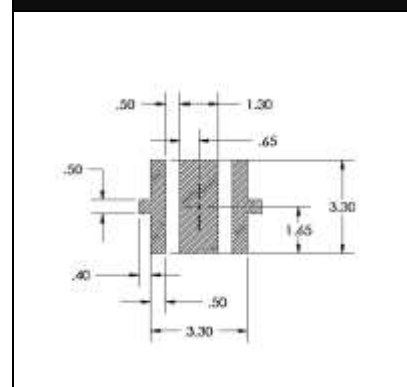
1~2W Colour Electrical & Optical Characteristics (typ. at 350/700mA)

Order Code	Colour	WL (nm)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	Zener
NOR09S83	Red	650-670nm	120	18/30	2.4	350/700	-
NOR09S78	Red	620-630nm	120	50/85	2.4	350/700	-
NOY09S81	Yellow	585-595nm	120	55/93	2.4	350/700	-
NOG09S79Z	Green	520-530nm	120	100/165	3.4	350/700	Yes
NOB16S70Z	Blue	470-480nm	120	35/56	3.4	350/700	Yes
NOB09S80Z	Blue	460-470nm	120	28/46	3.4	350/700	Yes
NOB09S84Z	Blue	450-460nm	120	16/26	3.4	350/700	Yes

Package Dimensions (mm)



Recommended Solder Pattern



PLCC2 LED

4014 0.2W White



Features:

- Mid Power LED
- Top View
- Various CCT
- CRI 80
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

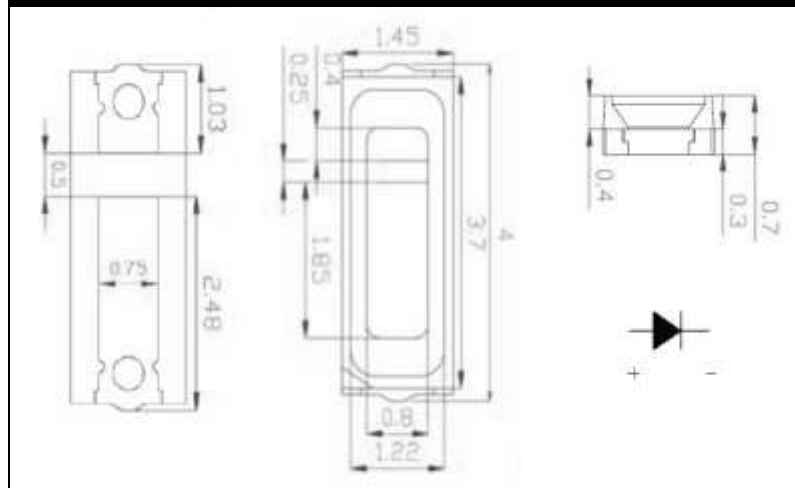
Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Backlighting
- Decorative Lighting

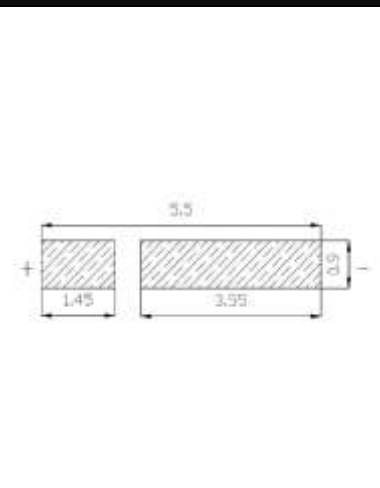
0.2W Electrical & Optical Characteristics (typ. at 2.85V/60mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW24S40	Cool White	6175-6825K	120	26	3.2	60	80
NOW24S41	Cool White	6020-6530K	120	26	3.2	60	80
NOW24S42	Cool White	5477-6020K	120	26	3.2	60	80
NOW24S43	Natural White	4900-5300K	120	26	3.2	60	80
NOW24S44	Natural White	3897-4223K	120	26	3.2	60	80
NOW24S45	Warm White	3265-3535K	120	24	3.2	60	80
NOW24S46	Warm White	2855-3025K	120	24	3.2	60	80
NOW24S47	Warm White	2645-2805K	120	24	3.2	60	80

Package Dimensions (mm)



Recommended Solder Pattern



PLCC6 LED

5050 0.2W White



Features:

- Mid Power LED
- Top View
- Various CCT
- Large Emitting Area
- 3 Channel
- High Efficiency
- High Lumen Output
- Compatible Package

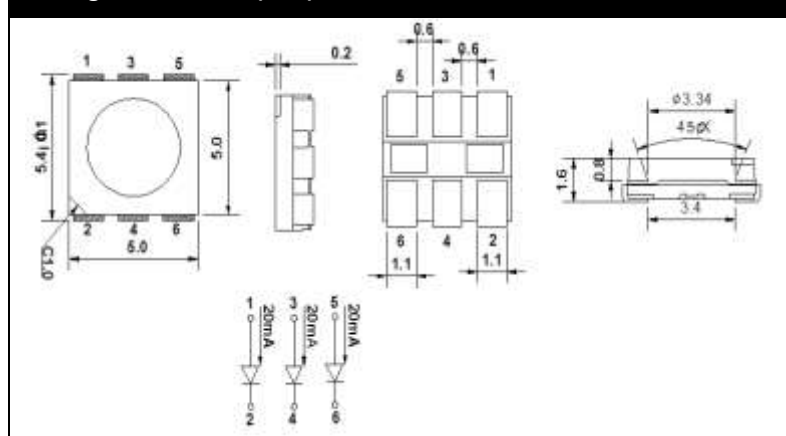
Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Decorative Lighting
- Portable Torch
- Architectural Lighting
- LED Light Strip

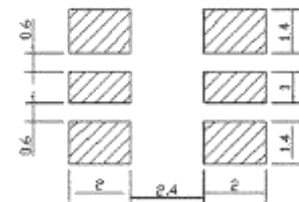
Electrical & Optical Characteristics (typ. at 60mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	I_V (mcd)	V_F (V)	I_F (mA)	CRI
NOW13S69	Cool White	5450-7400K	120	21.7	6900	3.2	60	70
NOW13S70	Cool White	5000-6000K	120	21.7	6900	3.2	60	70
NOW13S73Z	Natural White	4240-4600K	120	21.4	6800	3.1	60	70
NOW13S81	Warm White	2760-3160K	120	22.0	7000	3.2	60	80
NOW06S96	Warm White	2400-2760K	120	22.0	7000	3.2	60	70
NOW13S82	Warm White	2230-2580K	120	18.9	6000	3.2	60	70

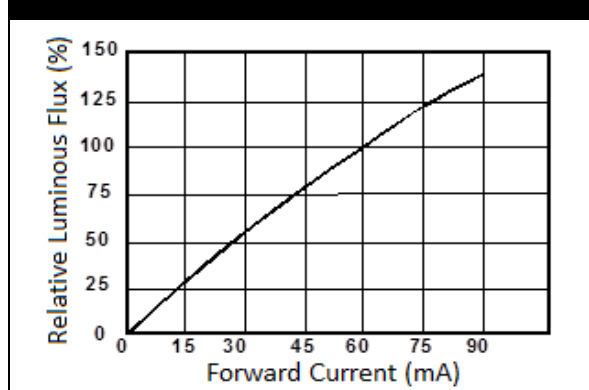
Package Dimensions (mm)



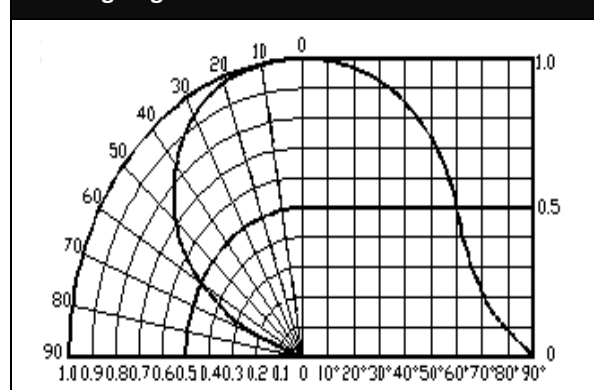
Recommended Solder Pattern



Relative Luminous Flux v.s. Forward Current



Viewing Angle



PLCC6 LED

5050 0.2W Colour / RGB



Features:

- Mid Power LED
- Top View
- Various Colour
- Single / Multi-Colours
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

Applications:

- Commercial Lighting
- Decorative Lighting
- Information Board
- LED Display
- LED Light Strip
- LED Light Bar

Colour Electrical & Optical Characteristics (typ. at 20mA) White Package

Order Code	Colour	WL (nm)	$2\theta_{1/2}$ (°)	I_V (mcd)	V_F (V)	I_F (mA)	I_{MAX} (mA)
NOR13S17	Red	620-635nm	120	1900	1.9	60	150
NOA06S91	Amber	600-615nm	120	1800	1.9	60	90
NOY13S19	Yellow	585-597nm	120	1900	2.0	60	90
NOG06S92	Green	520-535nm	120	4600	3.3	60	90
N0B04S85	Blue	462-473nm	120	1000	3.3	60	90

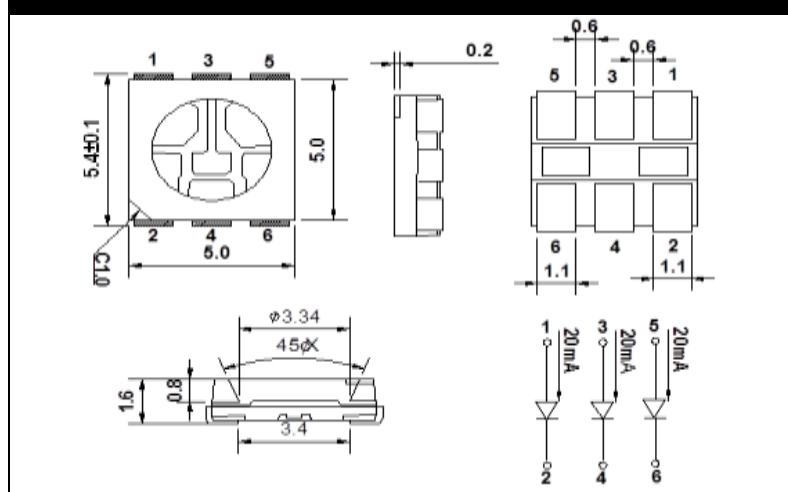
Colour Electrical & Optical Characteristics (typ. at 20mA) White Package

Order Code	Colour	WL (nm)	$2\theta_{1/2}$ (°)	I_V (mcd)	V_F (V)	I_F (mA)
NOM03S95	Red/Green/Blue	622/527/468nm	120	700/1750/320	2/3.2/3.2	20/20/20
NOM18S28	Red/Green/Blue	630/520/465nm	120	160/1000/160	2.0/3.3/3.2	20/20/20

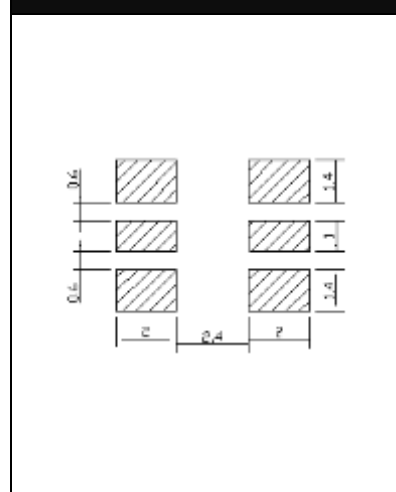
Colour Electrical & Optical Characteristics (typ. at 20mA) Black Surface Package

Order Code	Colour	WL (nm)	$2\theta_{1/2}$ (°)	I_V (mcd)	V_F (V)	I_F (mA)
NOM03S88BS	Red/Green/Blue	623/525/470nm	120	860/1650/350	1.9/3.2/3.2	20/20/20

Package Dimensions (mm)



Recommended Solder Pattern



EMC LED

5050 3.6W / 5.2W White



Features:

- High Power LED
- Top View
- EMC Package
- CRI 80
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Decorative Lighting
- Architectural Lighting

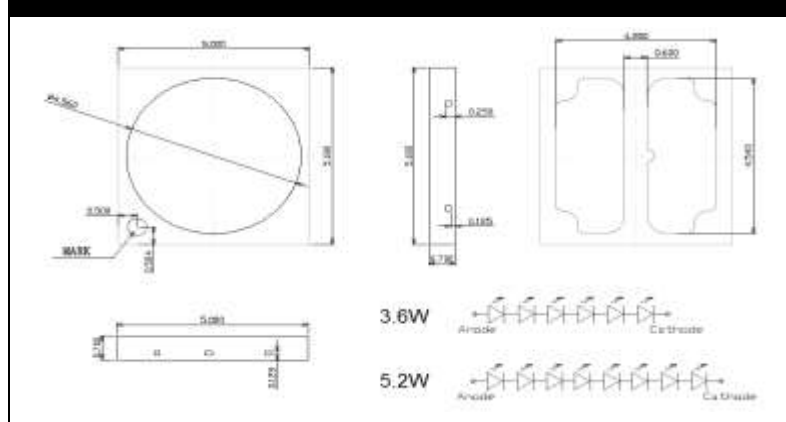
3.6W Electrical & Optical Characteristics (typ. at 200mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW21S41	Cool White	6020-7040K	115	500	18.0	200	80
NOW21S42	Cool White	5310-6020K	115	500	18.0	200	80
NOW21S43	Natural White	4745-5311K	115	500	18.0	200	80
NOW21S44	Natural White	3710-4260K	115	500	18.0	200	80
NOW21S45	Warm White	2870-3220K	115	490	18.0	200	80
NOW21S46	Warm White	2580-2870K	115	460	18.0	200	80

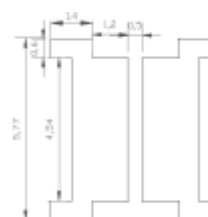
5.2W Electrical & Optical Characteristics (typ. at 200mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW21S51	Cool White	6020-7040K	115	650	26.0	200	80
NOW21S52	Cool White	5310-6020K	115	680	26.0	200	80
NOW21S53	Natural White	4745-5311K	115	680	26.0	200	80
NOW21S54	Natural White	3710-4260K	115	680	26.0	200	80
NOW21S55	Warm White	2870-3220K	115	630	26.0	200	80
NOW21S56	Warm White	2580-2870K	115	580	26.0	200	80

Package Dimensions (mm)



Recommended Solder Pattern



Ceramic LED

5050 4.2W White



Features:

- High Power LED
- Top View
- Ceramic Package
- Low Thermal Resistance
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

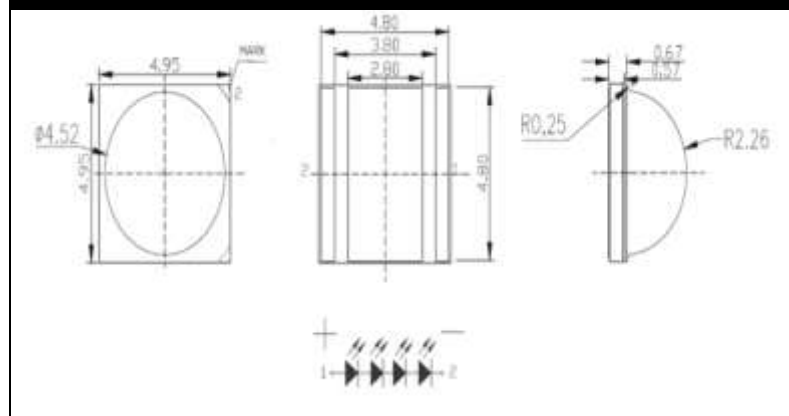
Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Outdoor Lighting
- Decorative Lighting
- Portable Torch
- Architectural Lighting
- Street Light

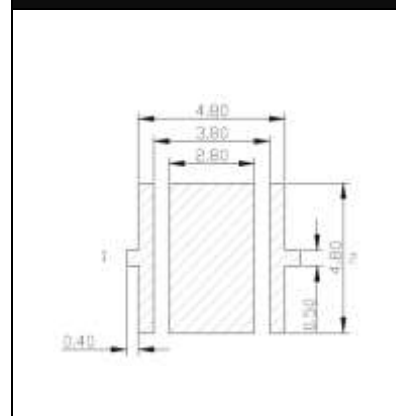
Electrical & Optical Characteristics (typ. at 350mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW21S31	Cool White	6020-7040K	145	445	12.0	350	70
NOW21S32	Cool White	5700-6500K	145	480	12.0	350	70
NOW21S33	Cool White	5310-6020K	145	475	12.0	350	70
NOW21S34	Natural White	4745-5311K	145	460	12.0	350	70
NOW21S35	Natural White	3710-4260K	145	430	12.0	350	70
NOW21S36	Warm White	2870-3220K	145	415	12.0	350	70
NOW21S37	Warm White	2580-2870K	145	400	12.0	350	70

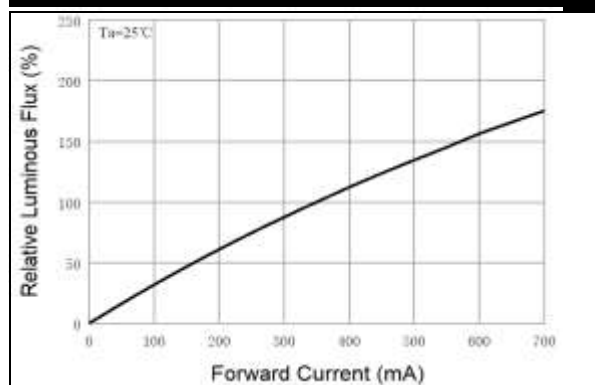
Package Dimensions (mm)



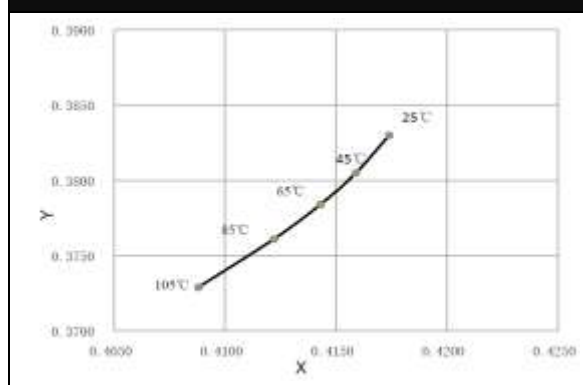
Recommended Solder Pattern



Relative Luminous Flux v.s. Forward Current



CIE X, Y Shift v.s. Ta



Ceramic LED

5252 4W White / Dual White Dom Lens



Features:

- High Power LED
- Top View
- AlN Ceramic Package
- Single White / Dual White
- Compatible Package
- High Efficiency
- High Lumen Output
- Flexible Circuit Design

Applications:

- Stage Lighting
- Commercial Lighting
- Decorative Lighting
- Wall Washer
- Architectural Lighting
- Torch Lighting

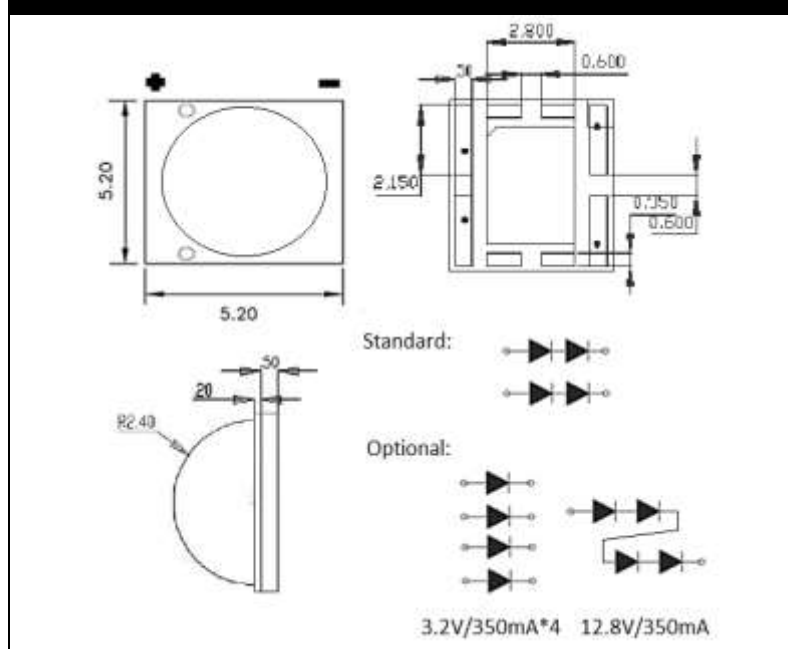
Electrical & Optical Characteristics (typ. at 350mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
N0W21S81	Sky White	7000-10000K	125	410	6.4	350*2	80
N0W21S82	Cool White	5000-7000K	125	440	6.4	350*2	80
N0W21S83	Natural White	3700-4500K	125	410	6.4	350*2	80
N0W21S84	Warm White	2580-3220K	125	350	6.4	350*2	80

Colour Electrical & Optical Characteristics (typ. at 350mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)
N0D14S29	CW/WW	5700/3000K	125	190/160	6.5/6.5	350*2

Package Dimensions (mm)

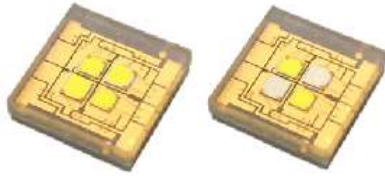


Recommended Solder Pattern



Ceramic LED

5252 4W White / Dual White Flat Lens



Features:

- High Power LED
- Top View
- AlN Ceramic Package
- Single White / Dual White
- Compatible Package
- High Efficiency
- High Lumen Output
- Flexible Circuit Design

Applications:

- Stage Lighting
- Commercial Lighting
- Decorative Lighting
- Wall Washer
- Architectural Lighting
- Torch Lighting

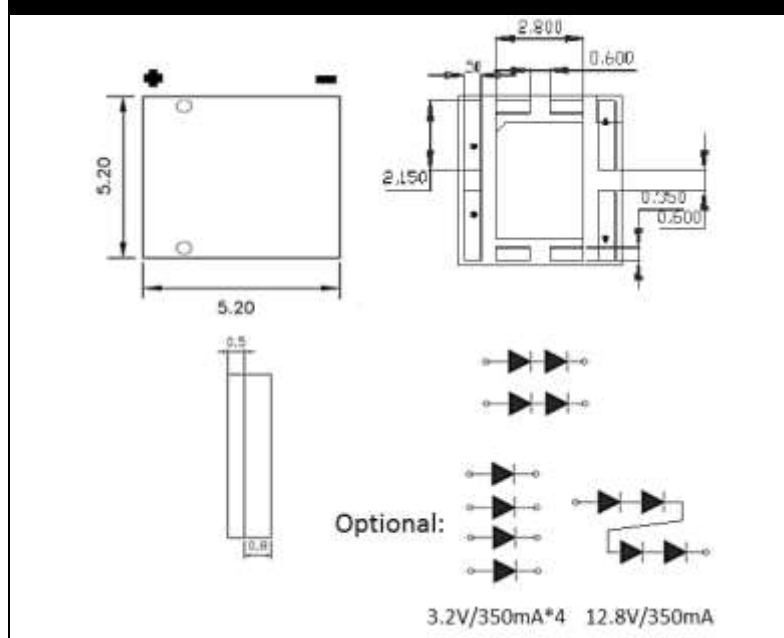
Electrical & Optical Characteristics (typ. at 350mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
N0W21S86	Sky White	7000-10000K	135	410	6.4	350*2	80
N0W21S87	Cool White	5000-7000K	135	440	6.4	350*2	80
N0W21S89	Natural White	3700-4500K	135	410	6.4	350*2	80
N0W21S88	Warm White	2580-3220K	135	350	6.4	350*2	80

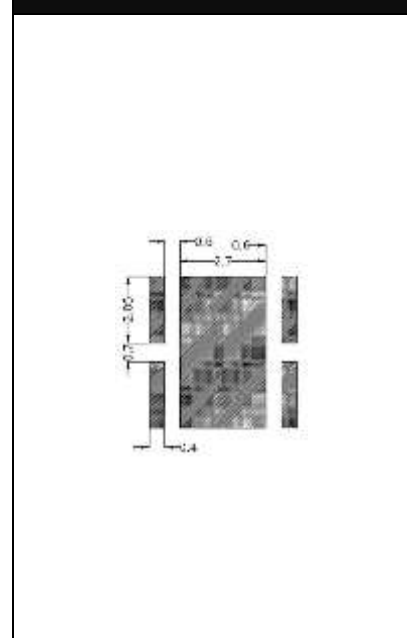
Colour Electrical & Optical Characteristics (typ. at 350mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)
N0D14S30	CW/WW	5700/3000K	135	190/160	6.5/6.5	350*2

Package Dimensions (mm)

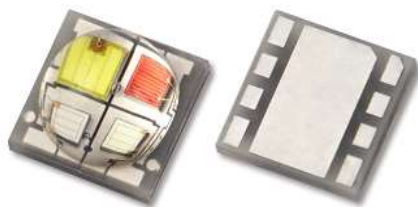


Recommended Solder Pattern



Ceramic LED

5252 4W WRGB/ARGB/YRGB Dom Lens



Features:

- High Power LED
- Top View
- AlN Ceramic Package
- Multi Colours
- Compatible Package
- High Efficiency
- High Lumen Output
- Flexible Circuit Design

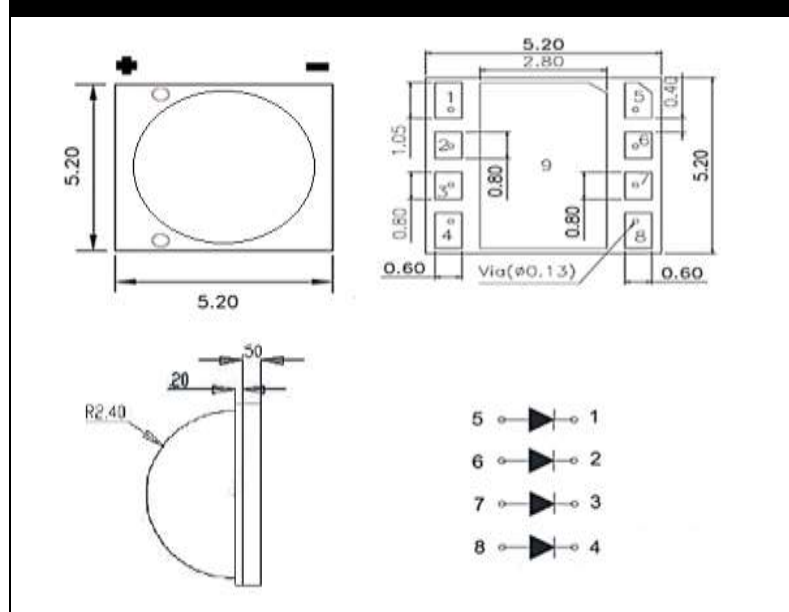
Applications:

- Stage Lighting
- Commercial Lighting
- Decorative Lighting
- Wall Washer
- Architectural Lighting

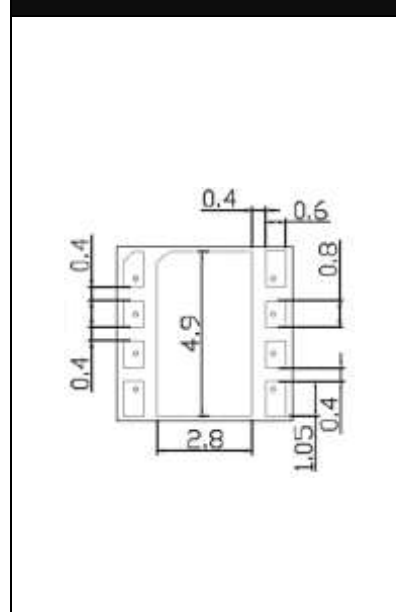
Colour Electrical & Optical Characteristics (typ. at 350mA)

Order Code	Colour	CCT (K) / WL (nm)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)
NOM04S54	CW/R/G/B	6700K/625/525/460	120	120/60/120/20	3/2/3/3	350*4
NOM19S94	CW/R/G/B	6000K/625/520/460	125	95/40/70/20	3/2/3/3	350*4
NOM23S10	NW/R/G/B	4000K/625/520/460	125	85/40/70/20	3/2/3/3	350*4
NOM19S96	WW/R/G/B	2900K/625/520/460	125	75/40/70/20	3/2/3/3	350*4
NOM15S65	A/R/G/B	605/625/525/460	125	35/30/60/20	2/2/3/3	350*4
NOM04S77	Y/R/G/B	590/625/525/460	125	40/30/60/20	2/2/3/3	350*4

Package Dimensions (mm)

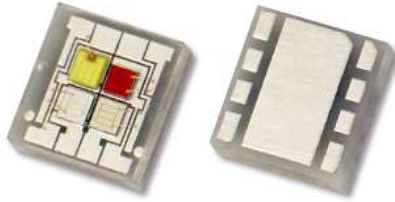


Recommended Solder Pattern



Ceramic LED

5252 4W WRGB/ARGB/YRGB Flat Lens



Features:

- High Power LED
- Top View
- AlN Ceramic Package
- Multi Colours
- Compatible Package
- High Efficiency
- High Lumen Output
- Flexible Circuit Design

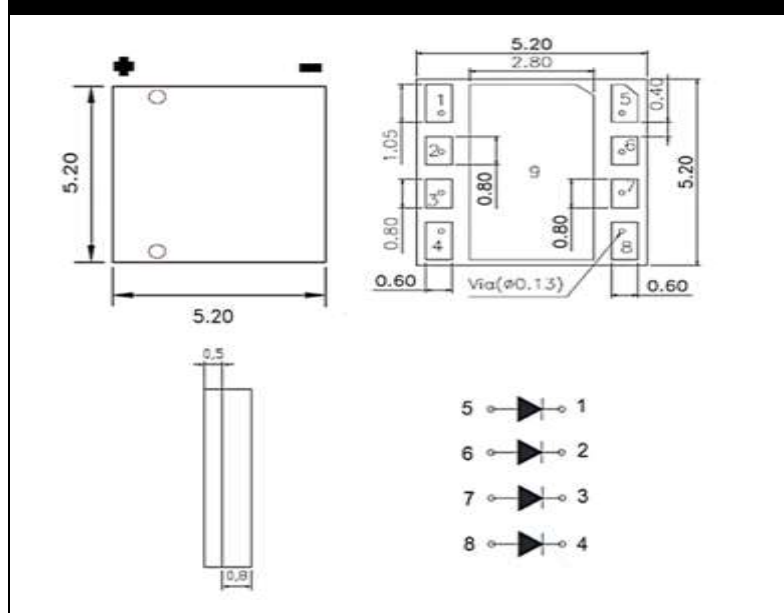
Applications:

- Stage Lighting
- Commercial Lighting
- Decorative Lighting
- Wall Washer
- Architectural Lighting

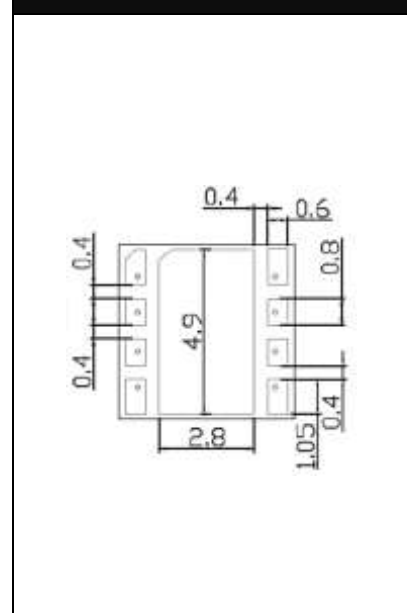
Colour Electrical & Optical Characteristics (typ. at 350mA)

Order Code	Colour	CCT (K) / WL (nm)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)
NOM04S53	CW/R/G/B	6700K/625/525/460	130	75/40/75/18	3/2/3/3	350*4
NOM19S93	CW/R/G/B	6000K/625/520/460	135	95/40/70/20	3/2/3/3	350*4
NOM23S11	NW/R/G/B	4000K/625/520/460	135	85/40/70/20	3/2/3/3	350*4
NOM19S95	WW/R/G/B	2900K/625/520/460	135	75/40/70/20	3/2/3/3	350*4
NOM15S66	A/R/G/B	605/625/525/460	130	35/30/60/20	2/2/3/3	350*4
NOM04S78	Y/R/G/B	590/625/525/460	135	40/30/60/20	2/2/3/3	350*4

Package Dimensions (mm)



Recommended Solder Pattern



PLCC4 LED

5630 0.2W / 0.5W White



Features:

- Mid Power LED
- Top View
- Individual Heat Path
- Large Emitting Area
- Various CCT and CRI
- High Efficiency
- High Lumen Output
- Compatible Package

Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Decorative Lighting
- Portable Torch
- Architectural Lighting

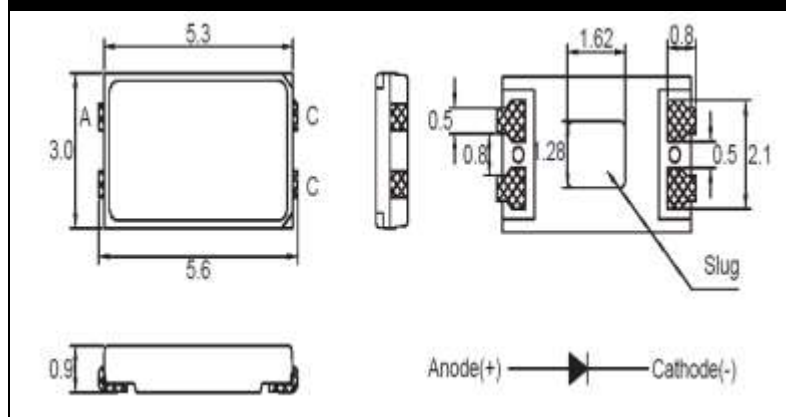
0.2W Electrical & Optical Characteristics (typ. at 3.2V/60mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW02S61	Cool White	5300-6070K	120	23	3.2	60	70
NOW02S62	Cool White	5300-6070K	120	22	3.2	60	80
NOW02S63	Natural White	3710-4260K	120	23	3.2	60	70
NOW02S64	Natural White	3710-4260K	120	22	3.2	60	80
NOW02S65	Warm White	2870-3220K	120	21	3.2	60	70
NOW02S66	Warm White	2870-3220K	120	20	3.2	60	80

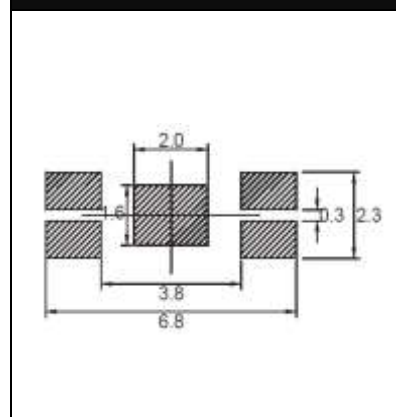
0.5W Electrical & Optical Characteristics (typ. at 3.3V/150mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
NOW15S91	Sky White	~24600K	120	55	3.3	150	---
NOW02S00	Cool White	5300-6070K	120	65	3.3	150	70
NOW02S01	Cool White	5300-6070K	120	60	3.3	150	80
NOW15S94	Cool White	4700-5300K	120	60	3.2	150	70
NOW02S02	Natural White	3710-4260K	120	65	3.8	150	70
NOW02S03	Natural White	3710-4260K	120	60	3.3	150	80
NOW02S04	Warm White	2870-3220K	120	60	3.3	150	70
NOW02S05	Warm White	2870-3220K	120	55	3.3	150	80

Package Dimensions (mm)



Recommended Solder Pattern



PLCC2 LED

5730 0.5W White



Features:

- Mid Power LED
- Top View
- CRI 80
- Individual Heat Path
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

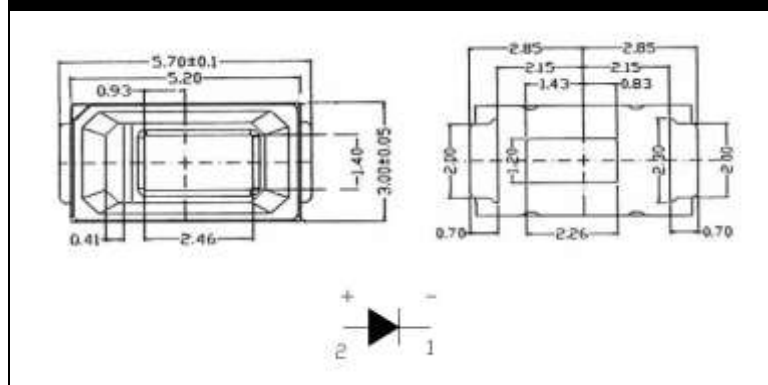
Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Backlight
- Decorative Lighting

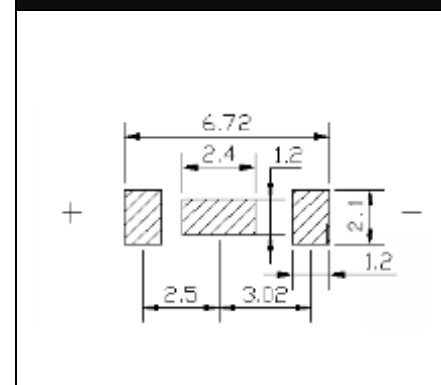
0.5W Electrical & Optical Characteristics (typ. at 3.2V/150mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	CRI
N0W24S50	Cool White	6175-6825K	120	64	3.2	150	80
N0W24S51	Cool White	6020-6530K	120	64	3.2	150	80
N0W24S52	Cool White	5477-6020K	120	64	3.2	150	80
N0W24S53	Natural White	4900-5300K	120	64	3.2	150	80
N0W24S54	Natural White	3897-4223K	120	64	3.2	150	80
N0W24S55	Warm White	3265-3535K	120	59	3.2	150	80
N0W24S56	Warm White	2855-3025K	120	59	3.2	150	80
N0W24S57	Warm White	2645-2805K	120	59	3.2	150	80

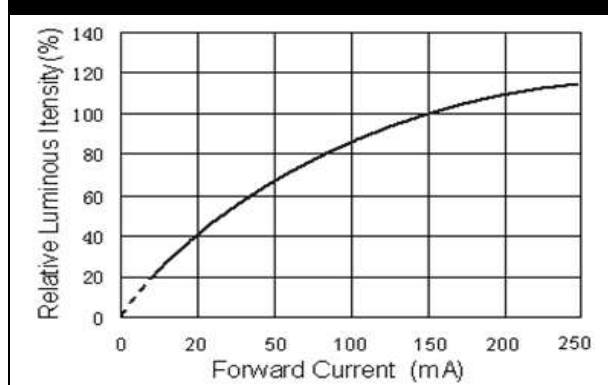
Package Dimensions (mm)



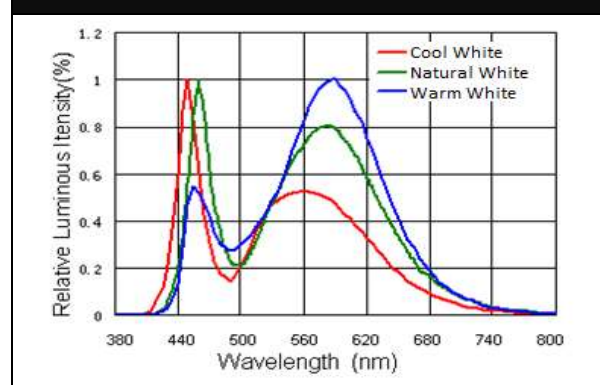
Recommended Solder Pattern



Relative Luminous Flux v.s. Forward Current



Relative Spectrum Distribution



PLCC2 LED

7020 0.5W White



Features:

- Mid Power LED
- Top View
- Large Emitting Area
- With Zener Diode
- Various CCT Choice
- High Efficiency
- High Lumen Output
- Compatible Package

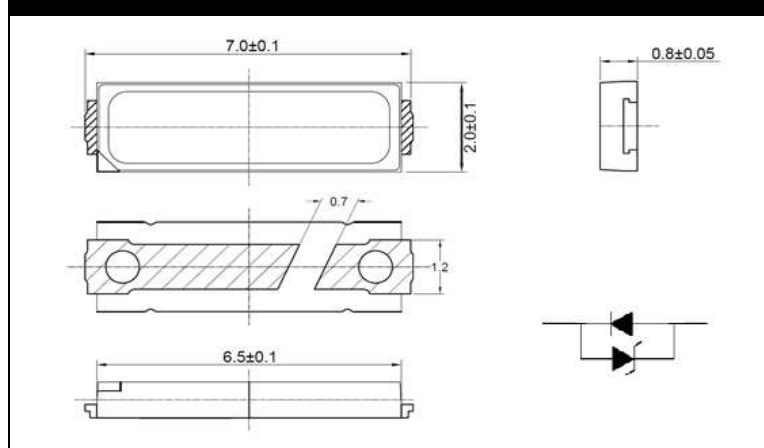
Applications:

- Backlighting
- Commercial Lighting
- General Lighting
- Indoor Lighting

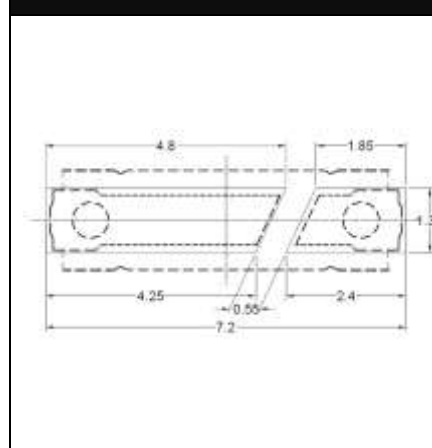
0.5W Electrical & Optical Characteristics (typ. at 3.2V/150mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	I_{MAX} (mA)
N0W02S85	Sky White	2580-178000K	120	48	3.2	150	200

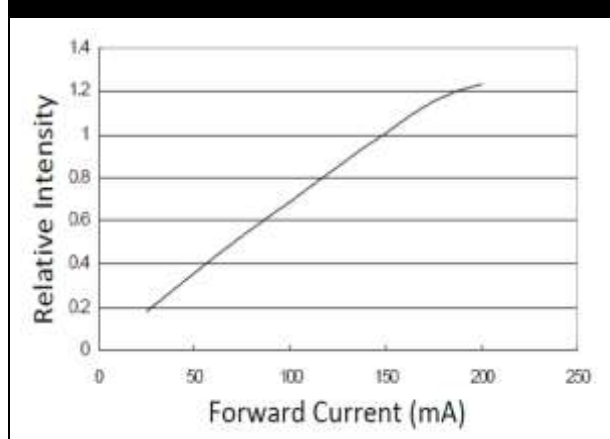
Package Dimensions (mm)



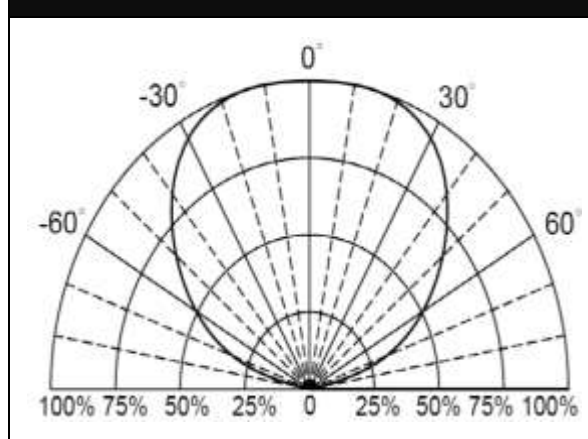
Recommended Solder Pattern



Relative Luminous Flux v.s. Forward Current



Directive Radiation



PLCC2 LED

K1 1W / 2W



Features:

- High Power LED
- Top View
- Easy for SMT or Hand Solder
- Various Colour
- Compatible Package
- High Efficiency
- High Lumen Output
- Large Emitting Area

Applications:

- General Lighting
- Commercial Lighting
- Indoor Lighting
- Outdoor Lighting
- Spot Light
- Torch Light

1W White Electrical & Optical Characteristics (typ. at 350mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	I_{MAX} (mA)
N0W06S19	Cool White	4750-10000K	120	125	3.2	350	500
N0W07S20	Natural White	3700-5000K	120	100	3.2	350	500
N0W07S14	Warm White	2800-3800K	120	85	3.2	350	500
N0W23S32	Warm White	1900-2400K	145	75	3.3	350	700

1W Colour Electrical & Optical Characteristics (typ. at 350mA)

Order Code	Colour	WL (nm)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	I_{MAX} (mA)
N0R06S18	Red	620-630nm	135	50	2.2	350	500
N0A06S16	Amber	585-595nm	135	50	2.2	350	500
N0A06S15	Amber	585-590nm	135	50	2.2	350	500
N0G06S21	Green	522-535nm	155	75	3.4	350	360
N0B06S17	Blue	490-510nm	135	75	3.4	350	500
N0B06S20	Blue	460-470nm	155	25	3.2	350	360

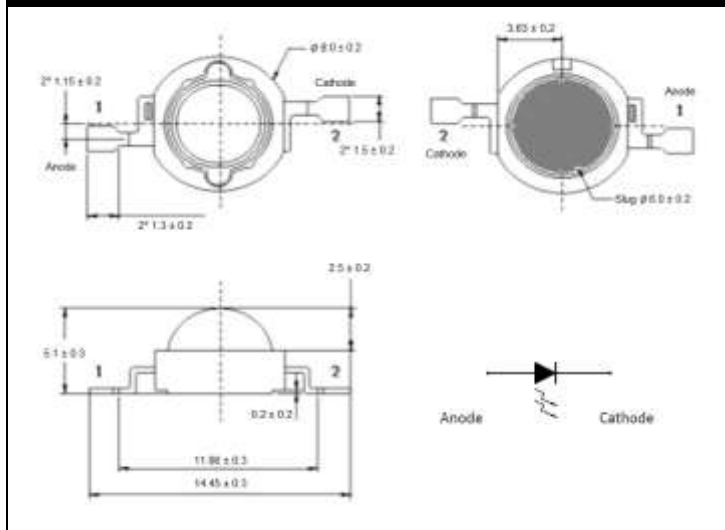
2W White Electrical & Optical Characteristics (typ. at 700mA)

Order Code	Colour	CCT (K)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	I_{MAX} (mA)
N0W09S24	Cool White	5000-10000K	120	220	3.2	700	710
N0W09S23	Natural White	3800-5000K	120	170	3.2	700	710
N0W09S25	Warm White	2500-3800K	120	150	3.2	700	710

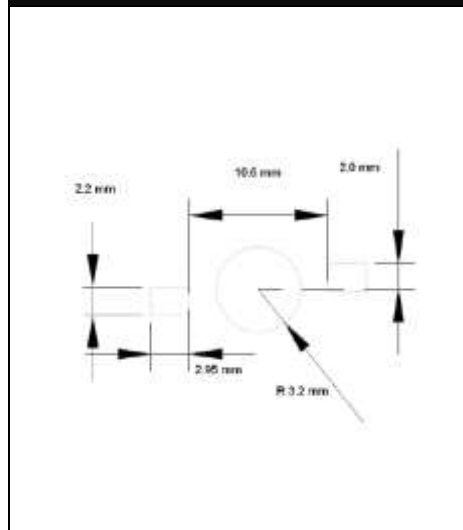
2W Colour Electrical & Optical Characteristics (typ. at 700mA)

Order Code	Colour	WL (nm)	$2\theta_{1/2}$ (°)	Φ_V (lm)	V_F (V)	I_F (mA)	I_{MAX} (mA)
N0R09S26	Red	625-630nm	120	100	2.0	700	710
N0A09S35	Amber	585-595nm	135	115	2.2	700	710
N0G09S28	Green	515-535nm	120	125	3.4	700	710
N0B09S27	Blue	460-470nm	120	40	3.2	700	710

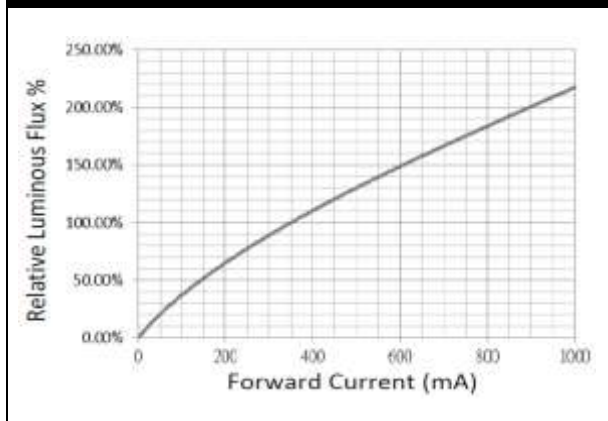
Package Dimensions (mm)



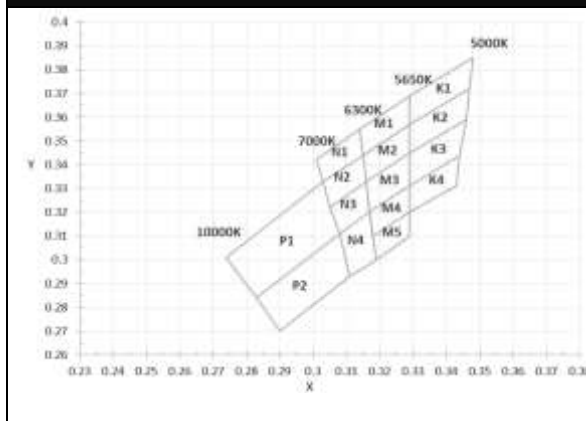
Recommended Solder Pattern



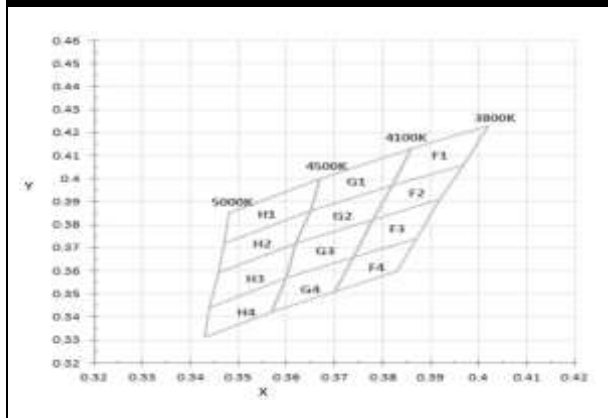
Relative Luminous Flux v.s. Forward Current



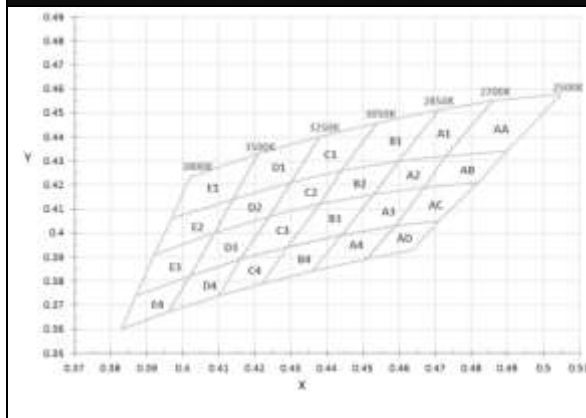
CIE Chromaticity Diagram Cool White



CIE Chromaticity Diagram Natural White



CIE Chromaticity Diagram Warm White





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