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SMD LEDs & LED LAMP



OPTO PLUS
LED CORP. 展躍光電



**The Perfect Supplier for
LED Products**



Taiwan Professional LED Manufacturer

Opto Plus LED Corp. is a professional LED manufacturer in Taiwan. We can provide you one stop, total solution for all LEDs application, no matter from LED product design to complicate LED modules design.



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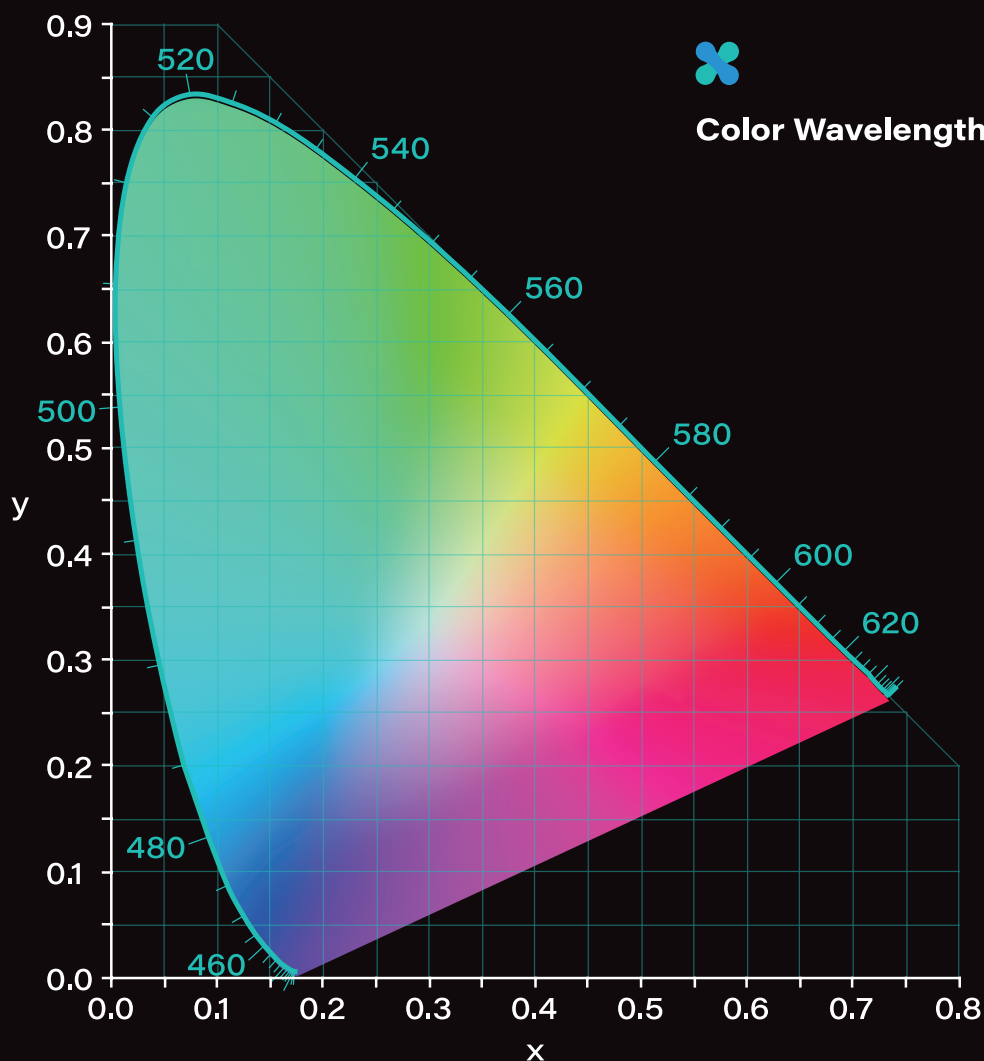


CIE Chromaticity Diagram

CIE 1931 XY

CIE 1931 Color Space

The CIE 1931 color spaces are the first defined quantitative links between distributions of wavelengths in the electromagnetic visible spectrum, and physiologically perceived colors in human color vision. The mathematical relationships that define these color spaces are essential tools for color management, important when dealing with color inks, illuminated displays, and recording devices such as digital cameras. The system was designed in 1931 by the "Commission Internationale de l'éclairage", known in English as the International Commission on Illumination.

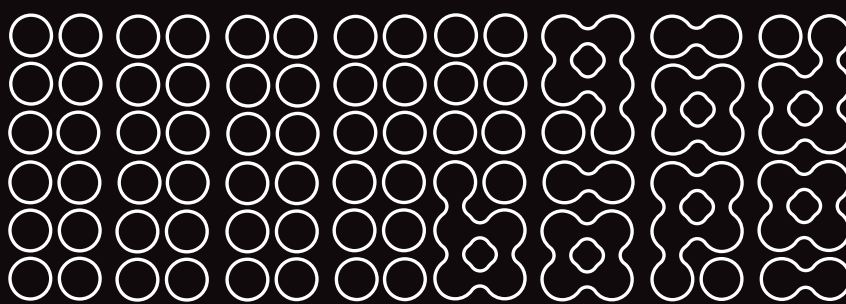


Color Wavelength & Color Temperature.

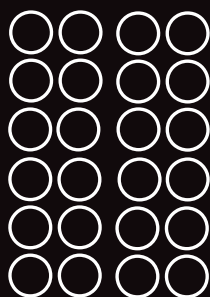
CIE 1931 Chromaticity Diagram

PART NUMBER SYSTEM

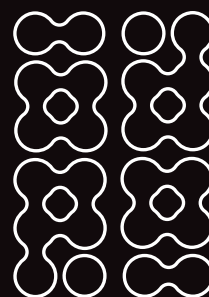
Part Number **OPS - L0816 - W - 5**



OPS - L0816 - W - 5



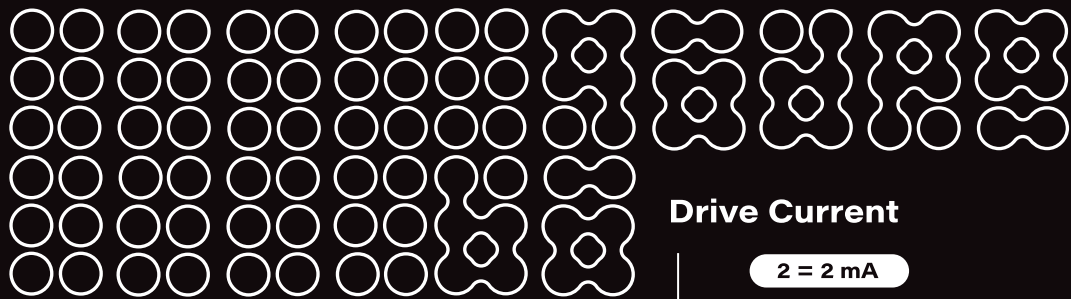
SMD Size
W × L



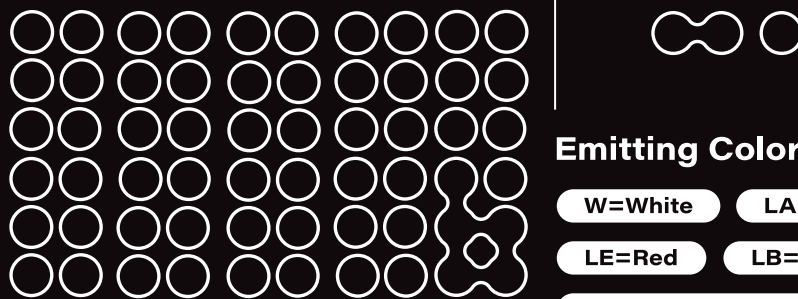
SMD LEDs or PLCC LEDs

PART NUMBER SYSTEM

Part Number **OPS-L0816-W-5**



OPS-L0816-W-5



Emitting Color

W=White

LA=Amber

LE=Red

LB=Blue

YG=Yellow Green

PG=Pure Green

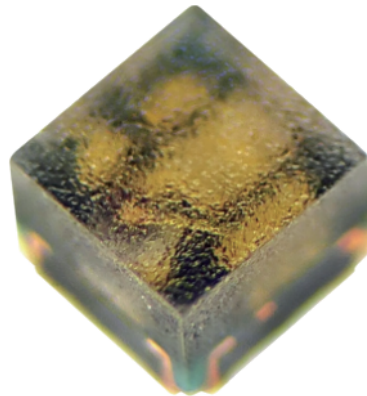
F=RGB

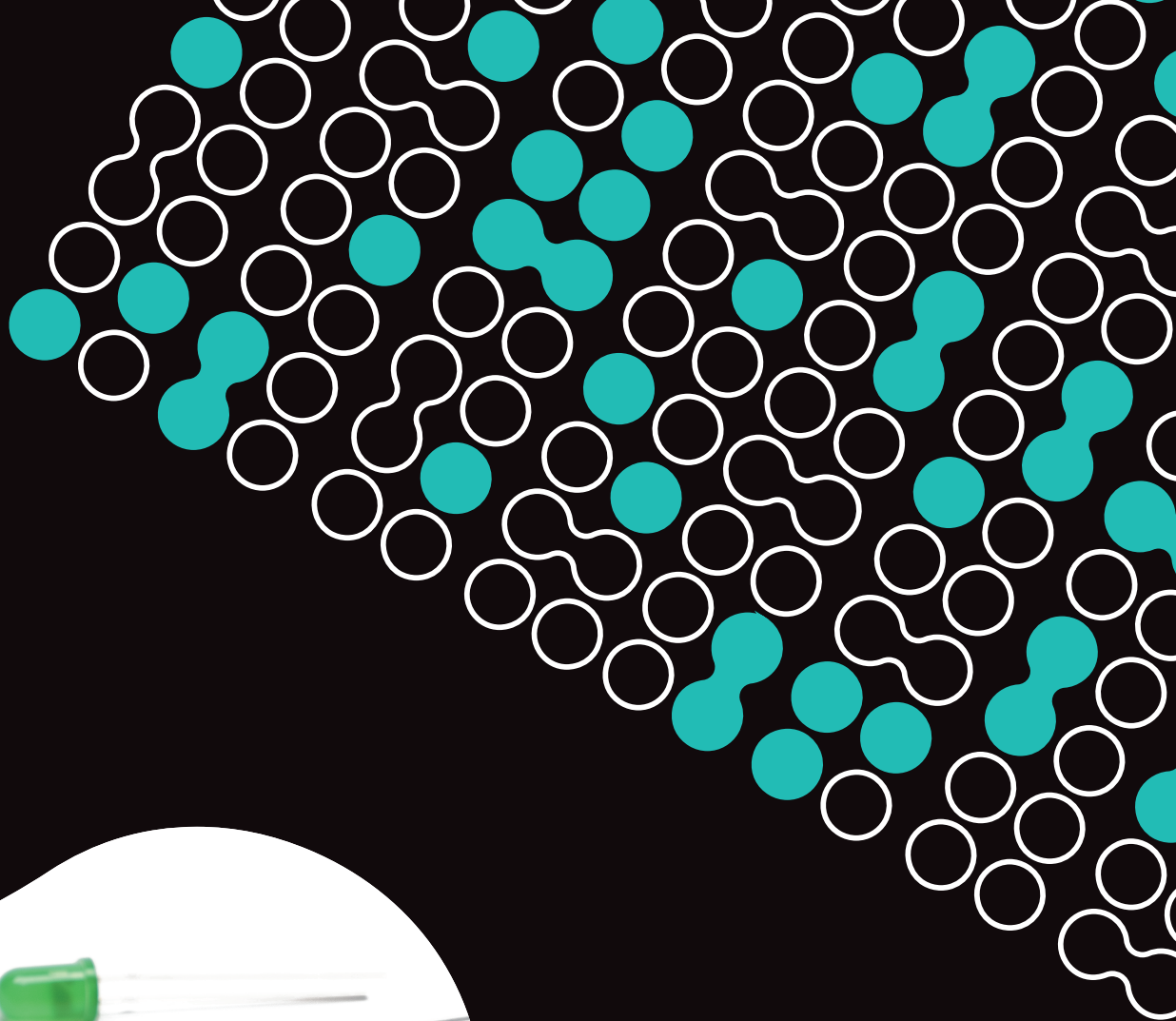


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LED Lamp

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APPLICATION NOTES

for SMD LEDs / PLCC



Please check the newest and complete application for your application.

● Precautions

- Avoid exposure to moist
- Anti-Static precaution must be taken when handling GaN, InGaN, and AlInGaP products.
- It is suggested to connect the unit with a current limiting resistor of the proper size.
- Avoid applying a reverse voltage beyond the specified limit.
- Avoid operation beyond the limits as specified by the absolute maximum ratings.
- Avoid direct contact with the surface through which the LED emits light.
- If possible, assemble the unit in a clean room or dust-free environment.

⌘ Precautions

1. SMD LEDs must be stored in a clean environment. Unopened moisture barrier bag shall be stored at temperature 5~ 30°C with humidity below 60%RH.
2. Shelf life in sealed bag : 12 Month at <40°C and <90%RH. (Base on aluminum laminated moisture barrier bag.) After the bag is opened, devices that will be subjected to infrared reflow, vapor-phase reflow, or equivalent processing must be:

- Mounted within 72 hours at factory conditions of $\leq 30^{\circ}\text{C}$ / 60%RH, or
- Stored at $\leq 10\%\text{RH}$ with zip-lock sealed (times 168 hours)

⌘ Baking

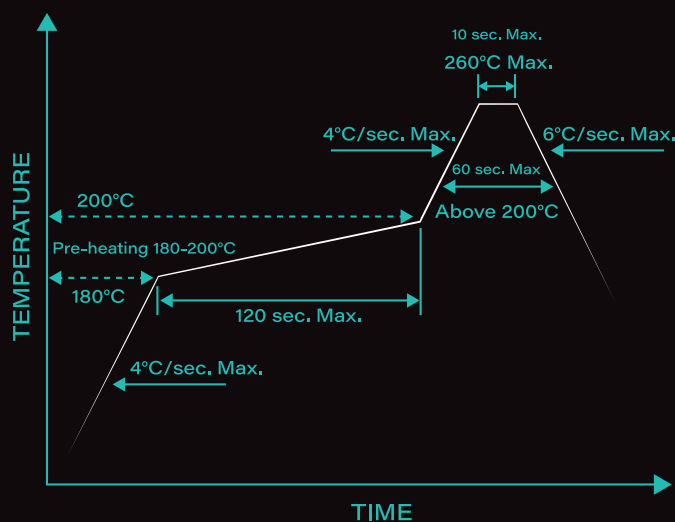
Baking before soldering is recommended when the package has been unsealed for 4 weeks. The conditions are as follows:

- $60 \pm 3^{\circ}\text{C} \times (12 \sim 24\text{hrs})$ and $< 5\%\text{RH}$, tape reel type.
- $100 \pm 3^{\circ}\text{C} \times (45\text{min} \sim 1\text{hr})$, bulk type.
- $130 \pm 3^{\circ}\text{C} \times (15\text{min} \sim 30\text{min})$, bulk type.

Soldering

Recommend soldering paste specifications:

- Operating temp.: Above 220°C, 60 sec.
Peak temp.: 260°C Max., 10 sec Max.
Reflow soldering should not be done more than two times.
- Never attempt next process until the component is cooled down to room temperature after reflow.
- The recommended reflow soldering profile (measured on the surface of the LED terminal) is as following:



Cleaning

Following are cleaning procedures after soldering:

- An alcohol-based solvent such as isopropyl alcohol (IPA) is recommended.
- Temperature x Time should be 50°C x 30sec. or <30°C x 3min
- Ultrasonic cleaning: < 15W/ bath; bath volumes 11liter max.
- Curing: 100°C max, <3min.

Cautions of Pick and Place

Following are cleaning procedures after soldering:

- Avoid stress on the resin at elevated temperature.
- Avoid rubbing or scraping the resin by any object.
- Electric-static may cause damage to the component.



APPLICATION NOTES for Through Hole LEDs



Please check the newest and complete application for your application.

● Precautions

1. Scope: LED is suitable for general electronic products

In the event that the product needs to be applied to certain special reliability, as well as when the product failure or failure may endanger life and health equipment, it is necessary to contact with Opto Plus LED Corp.

2. Through Hole LEDs must be avoid exposure to the condensing moisture environment continuously and keep the product away from rapid temperature changed.

3. Through Holed LEDs must be stored with temperature below 30°C and humidity below 60%RH.

4. After original sealed package has been opened , through hole LEDs should be assembled in 72 hours.

5. Baking

Baking before soldering is recommended when the package has been unsealed for 72 hours and more than 1 week.

The conditions should be 30 (+/-10) hours at 85 ~ 100°C

6. Soldering General Note

Lamp without stopper type must be leave a minimum of 3mm clearance from the base of the lens to the soldering point when soldering.

Do not apply any external stress to the lead frame during soldering while the LED is at high temperature.

7. Manual soldering is not recommended unless necessary such as when repair or rework is required.

Soldering Iron
(with 1.5mm Iron tip)

300°C
Max

(one time only)

3
sec

Temperature Condition

Soldering Time

Note: Excessive soldering temperature and / or time might result in deformation of the LED lens or catastrophic failure of the LED.

Wave Soldering

**100°C
Max**

Pre-heat

**60^{sec}
Max**

Pre-heat Time

**255°C
Max**

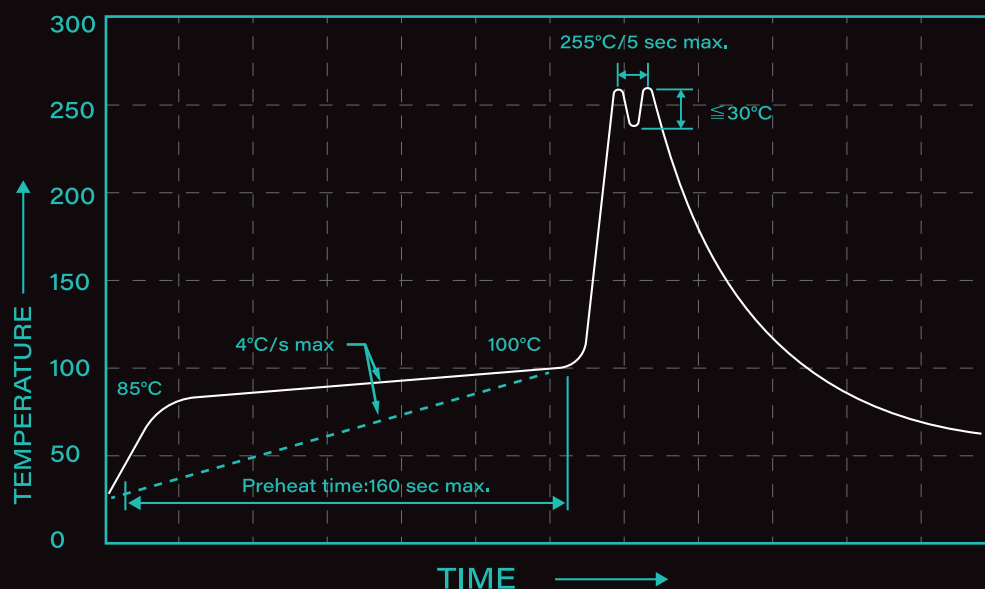
Temperature

**5^{sec}
Max**

Soldering Time

Note: Excessive soldering temperature and / or time might result in deformation of the LED lens or catastrophic failure of the LED.

Lead-Free Wave Soldering Profile



Note:

- Recommend pre-heat temperature of 100° C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260° C.
- Peak wave soldering temperature between 245° C ~ 255°C for 3 sec (5 sec max).
- Do not apply stress to the epoxy resin while the temperature is above 85°C.
- No more than one wave soldering pass.

All LED Lamp should refer to Data Sheet

Milestone

2008 Dec.

**Opto Plus LED Corp.
Established**



Jan.

First time to develop LED DASHBOARD for Scooter. It is first one LED DASHBOARD in Taiwan Scooter/Motorcycle market.

Jun.

First time to develop LED Dashboard which is built-in Driver IC for Motorcycle.

Dec.

1. Develop LED Dashboard which is built-in Driver IC for Electric Scooter.
2. Develop smallest digit height with 0.17" custom 7 segment display.

2009

2010

2012

2015

2016

2017

Mar.

Set up mass production line in Taiwan.

Nov.

First time to attend Electronica Munich in Germany.

Jul.

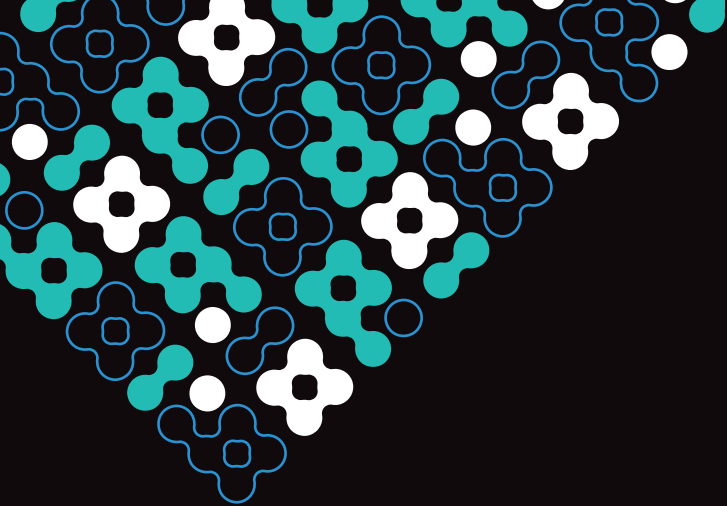
Develop and publish Capacitive Display. (Included Touch Pad, Touch IC & CPU)

Oct.

First time to attend TAITRONIC Taipei in Nangang Exhibition Center.

Dec.

Develop & mass production Capacitive Custom Display included Touch Pad, Touch IC and CPU.



May

RGB 7 segment display, RGB dot matrix LED Display and RGB Touch LED Display announced.

Dec.

Total Q'ty of LED Dashboard from Year 2016 is 585,317pcs
LED Dashboard for Fuel Scooter/Motorcycle:255,189pcs
LED Dashboard for Electric Scooter:330,128pcs

Jan.

OPTO PLUS LED CORP.
Web site update.

Apr.

Develop Light Sensor Built-in LED Display with German Customer for Charging Application.

Jan.

Develop and publish Capacitive Display included Touch Pad only.

2018

2019

2020

2022

2023

2024

Jun.

OPTO PLUS
renew Catalogue
and product line.

Jan.

Develop Switch Built-in LED Display with customer.

Nov.

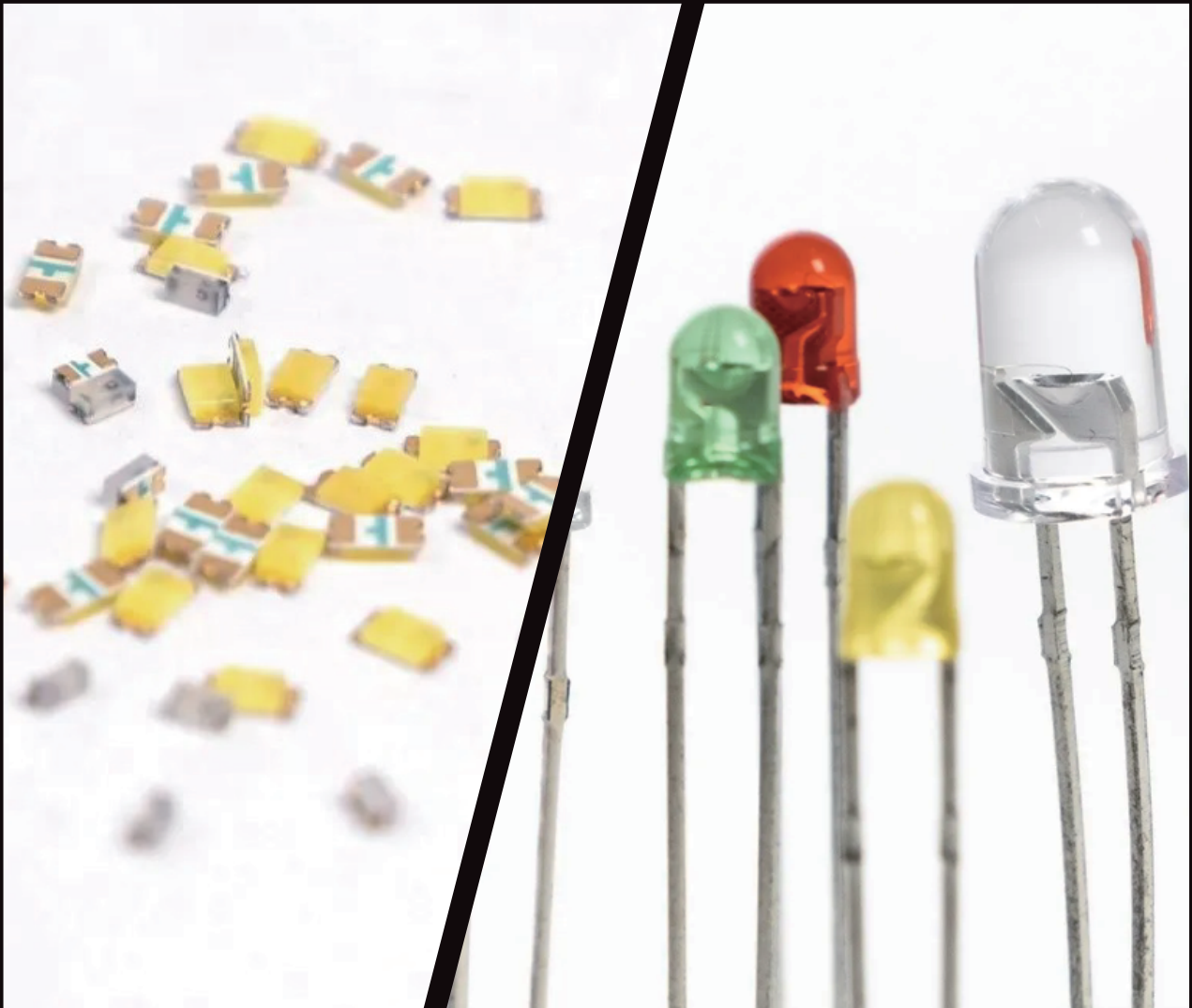
Set up SMT Line in Taiwan and AOI system in Jhonghe Dist., New Taipei City.

Dec.

Monthly Q'ty of LED Dashboard for Scooter is 10K/month up.

Nov.

Small size White color 7 segment display White color dot matrix announced.



Cultivating Light Innovation for a Radiant Future

With over 15 years of experience in international customer collaboration, Opto Plus LED Corp. is recognized as a "leading optoelectronics manufacturer in Taiwan."

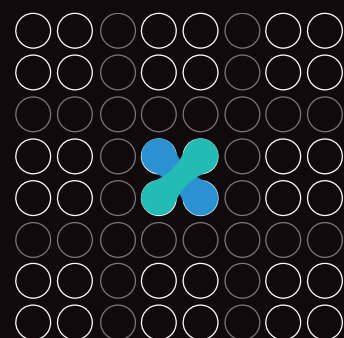
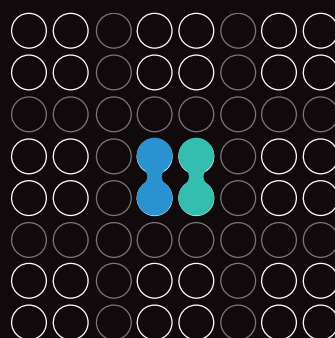
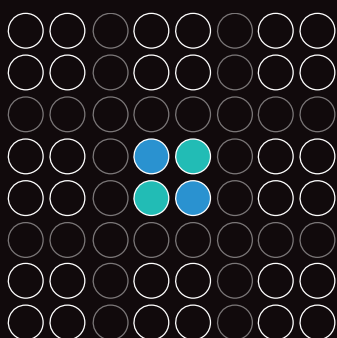


OPTO PLUS LED CORP.

Since its establishment in 2009, Opto Plus LED Corp. has been one of the few professional manufacturers of LED displays in Taiwan. Its products include seven-segment displays, dot matrix displays, and other LED opto-electronic products, widely used in home appliances, consumer products, dashboard, and other fields.

We have always adhered to the spirit of "technological humanization" and "localized internationalization," customizing high-quality LED products for top global brands. Our LED display modules are applied to household appliances, motorcycle, instruments, and production equipment. We are ISO9001-2015 certified, have a comprehensive quality management system, and have garnered over 15 years of international customer recognition, promoting the MIT (Made in Taiwan) spirit in the global arena.

We believe that the brilliance of LEDs comes from assembling countless dot light sources in a way that converges seeds of light into infinite power. In the past, Opto Plus LED Corp. has deeply rooted Taiwan's light globally; now, we aim to bring the world's light back to Taiwan. We look forward to planting the seeds of light with you, whereby to illuminate every moment of the future.



Factory Introduction

Precision with Humanity, Critical Quality Control

Professional quality control personnel perform inspections on products at each stage of the manufacturing process to ensure excellent quality. Rigorous human oversight and meticulous processes enable Opto Plus LED Corp to achieve a 99% yield rate for high-quality products.



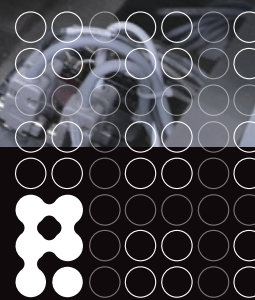
SMT Production Lines



Dedicated to Perfect Display Uniformity

Our epoxy process and quality control procedures ensure that our product's light is uniform and free of hot spots.





COB Production Lines

The key to LED conductivity and luminescence.

Specializing in LED display production and manufacturing, we are one of the few Taiwanese companies with expertise in this field. With both Chip On Board (COB) and Surface-Mount Technology (SMT) production lines in-house, we are capable of producing high to mid-range precision products. We can customize various types of displays according to customer needs, including those with built-in driver ICs, CPUs, and touch IC LED modules. We are also committed to innovation, daring to challenge technical boundaries that other companies may shy away from.



Quality Control

All products undergo several inspection processes, and we perform 100% quality control before shipping.



Factory Environment



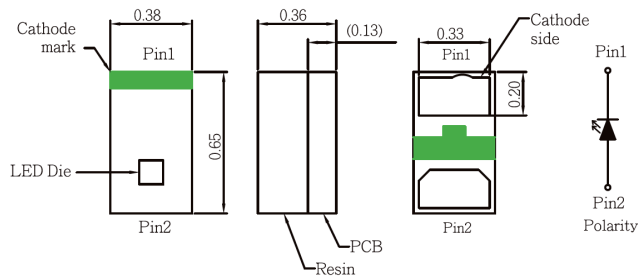
Package Dimension / Internal Circuit



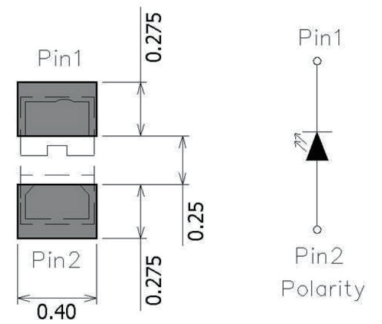
0201 Series



Inquiry



Soldering pattern



Part Number

Size(mm) L*W*H

Emitting color

λ_d (nm)/CIE (x,y)

Forward Voltage(V)

Luminous Intensity(mcd)

IF(mA)

OPS-L0306W-2

White

X=0.300 Y=0.296

2.6

55.0

OPS-L0306LB-2

Blue

468

2.6

15.0

OPS-L0306PG-2

Pure Green

531

2.5

100.0

OPS-L0306LE-2

Red

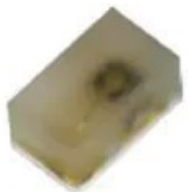
621

1.8

7.15

2

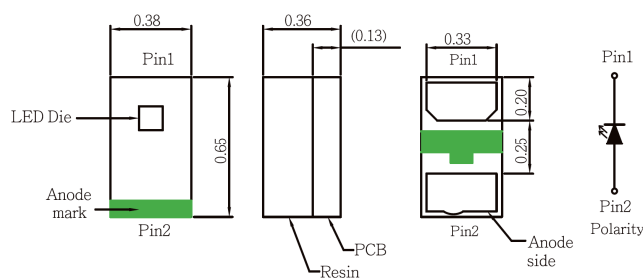
Package Dimension Internal Circuit



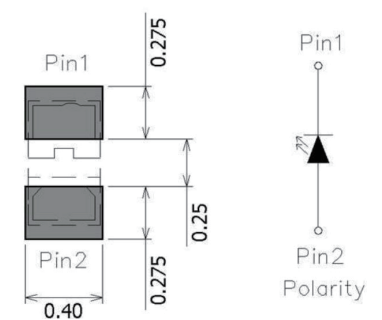
0201 Series



Inquiry



Soldering pattern



Part Number

Size(mm) L*W*H

Emitting color

λ_d (nm)/CIE (x,y)

Forward Voltage(V)

Luminous Intensity(mcd)

IF(mA)

OPS-L0307LE-5

Red

621

1.8

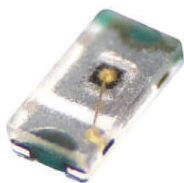
7.15

5

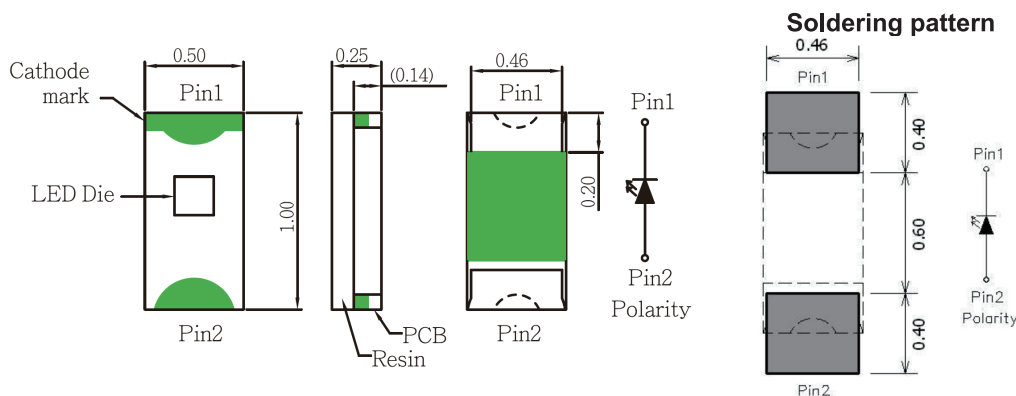


SMD LEDs

Package Dimension / Internal Circuit



0402 Series

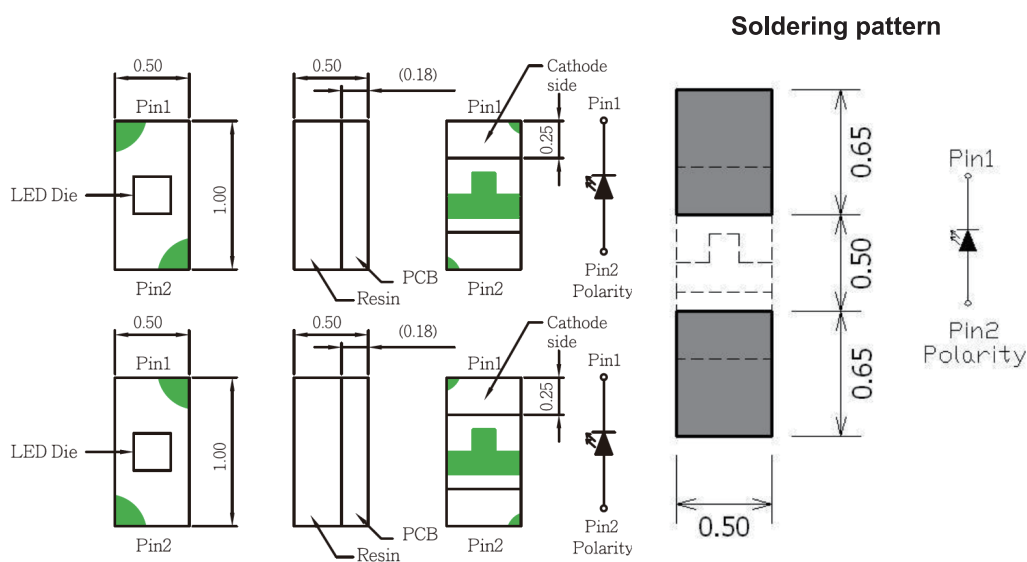


Part Number	Size(mm) L*W*H	Emitting color	λd (nm)/CIE (x,y) Typ.	Forward Voltage(V) Typ.	Luminous Intensity(mcd) Typ.	IF(mA)
OPS-L0510W	1.0*0.5*0.25	White	X=0.290 Y=0.285	2.8	320.0	20
OPS-L0510LB		Blue	470	3.3	140.0	
OPS-L0510PG		Pure Green	525	3.3	560.0	
OPS-L0510LE		Red	624	2.0	71.5	

Package Dimension / Internal Circuit



0402 Series



Part Number	Size(mm) L*W*H	Emitting color	λd (nm)/CIE (x,y) Typ.	Forward Voltage(V) Typ.	Luminous Intensity(mcd) Typ.	IF(mA)
OPS-L05A10W	1.0*0.5*0.5	White	X=0.290 Y=0.285	3.2	500.0	20
OPS-L05A10LB		Blue	470	3.3	71.5	
OPS-L05A10PG		Pure Green	525	3.3	285.0	
OPS-L05A10LE		Red	624	2.0	71.5	



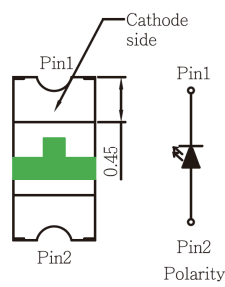
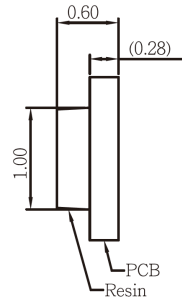
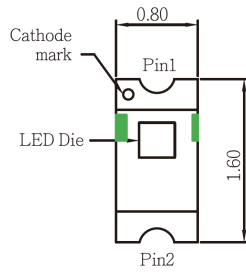
Package Dimension / Internal Circuit



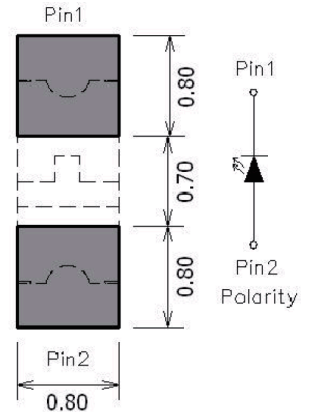
0603 Series



Inquiry



Soldering pattern



Part Number	Size(mm) L*W*H	Emitting color	λd (nm)/CIE (x,y) Typ.	Forward Voltage(V) Typ.	Luminous Intensity(mcd) Typ.	IF(mA)
OPS-L0816W-5	1.6*0.8*0.6	White	X=0.290 Y=0.285	3.3	350.0	5
OPS-L0816LB		Blue	470	3.3	71.5	20
OPS-L0816PG		Pure Green	525	3.3	285.0	
OPS-L0816LY		Yellow	589	2.0	112.5	
OPS-L0816LA		Amber	605	2.0	112.5	
OPS-L0816LE		Red	624	2.0	45.0	

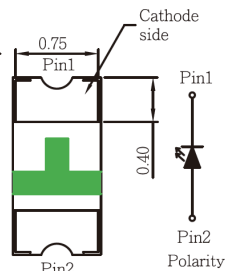
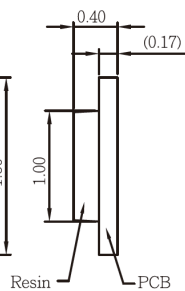
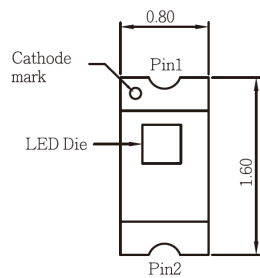
Package Dimension / Internal Circuit



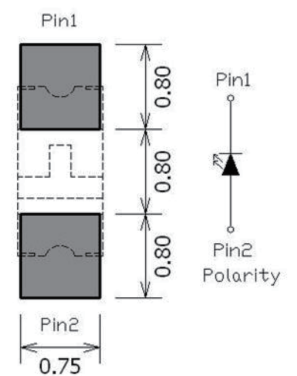
0603 Series



Inquiry



Soldering pattern



Part Number	Size(mm) L*W*H	Emitting color	λd (nm)/CIE (x,y) Typ.	Forward Voltage(V) Typ.	Luminous Intensity(mcd) Typ.	IF(mA)
OPS-L08A16W	1.6*0.8*0.4	White	X=0.290 Y=0.285	2.9	130.0	20
OPS-L08A16LB		Blue	470	3.3	71.5	
OPS-L08A16PG		Pure Green	525	3.3	285	
OPS-L08A16LY		Yellow	589	2.0	112.5	
OPS-L08A16LA		Amber	605	2.0	112.5	
OPS-L08A16LE		Red	624	2.0	45.0	

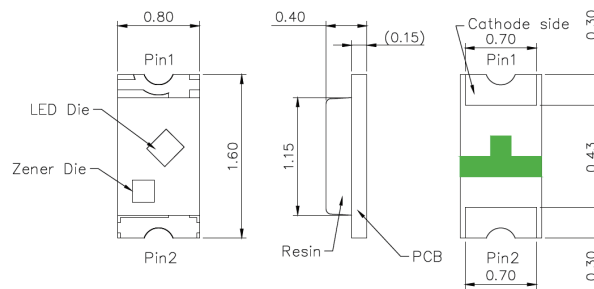


SMD LEDs

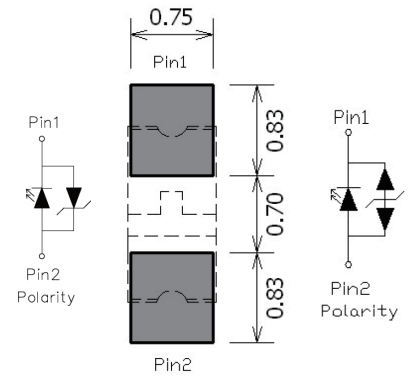
Package Dimension / Internal Circuit



0603 Series



Soldering pattern



Part Number

Size(mm) L*W*H

Emitting color

λd (nm)/CIE (x,y)

Forward Voltage(V)

Luminous Intensity(mcd)

IF(mA)

OPS-L08A16W-
Z-5

1.6*0.8*0.4

White

Typ.
X=0.290 Y=0.285

Typ.
2.9

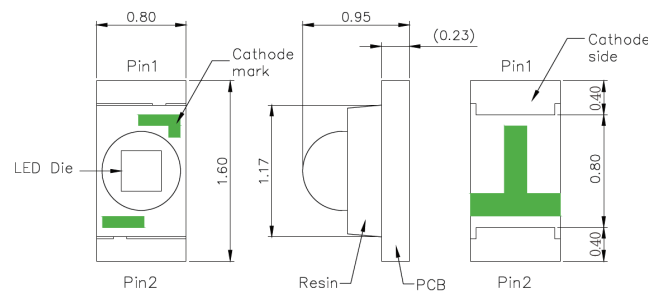
Typ.
400.0

5

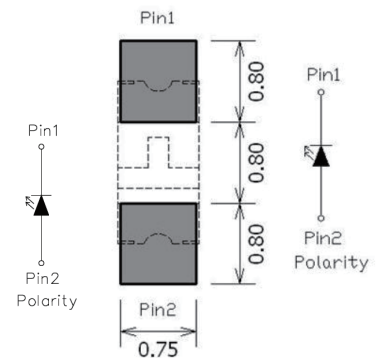
Package Dimension / Internal Circuit



0603 Series



Soldering pattern



Part Number

Size(mm) L*W*H

Emitting color

λd (nm)/CIE (x,y)

Forward Voltage(V)

Luminous Intensity(mcd)

IF(mA)

OPS-L08B16W

White

Typ.
X=0.290 Y=0.285

Typ.
2.9

Typ.
130.0

OPS-L08B16LB

Blue

470

3.3

450.0

OPS-L08B16PG

Pure Green

525

3.3

2250

OPS-L08B16LY

Yellow

589

2.0

360.0

OPS-L08B16LE

Red

624

2.0

715.0

1.6*0.8*0.95

20



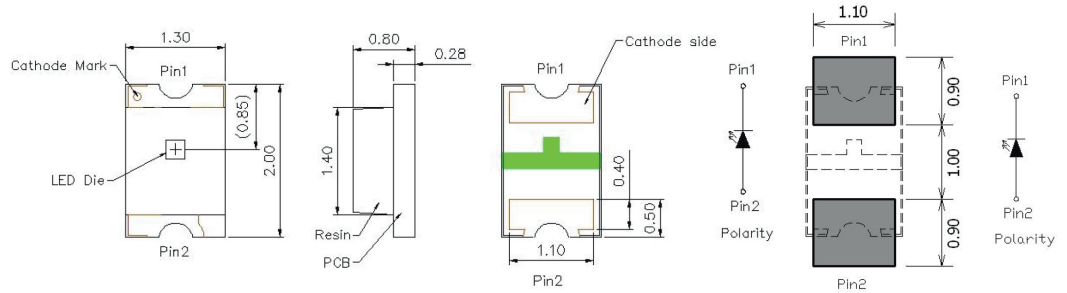
Package Dimension / Internal Circuit



0705 Series



Inquiry



Part Number	Size(mm) L*W*H	Emitting color	λ_d (nm)/CIE (x,y) Typ.	Forward Voltage(V) Typ.	Luminous Intensity(mcd) Typ.	IF(mA)
OPS-L1320W	2.0*1.3*0.8	White	X=0.290 Y=0.285	3.3	550.0	20
OPS-L1320LB		Blue	470	3.3	71.5	
OPS-L1320PG		Pure Green	525	3.3	285.0	
OPS-L1320YG		Yellow Green	571	2.1	71.5	
OPS-L1320LY		Yellow	589	2.0	112.5	
OPS-L1320LA		Amber	605	2.0	71.5	
OPS-L1320LE		Red	624	2.0	112.5	

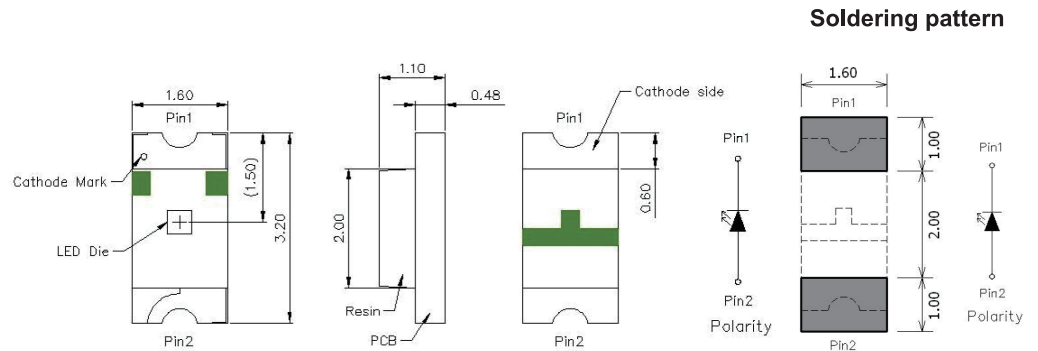
Package Dimension / Internal Circuit



1206 Series



Inquiry



Part Number	Size(mm) L*W*H	Emitting color	λ_d (nm)/CIE (x,y) Typ.	Forward Voltage(V) Typ.	Luminous Intensity(mcd) Typ.	IF(mA)
OPS-L3216W	3.2*1.6*1.1	White	X=0.290 Y=0.285	3.3	350.5	20
OPS-L3216LB		Blue	470	3.3	112.5	
OPS-L3216PG		Pure Green	525	3.3	285.0	
OPS-L3216YG		Yellow Green	571	2.1	71.5	
OPS-L3216LY		Yellow	589	2.0	71.5	
OPS-L3216LA		Amber	605	2.0	71.5	
OPS-L3216LE		Red	624	2.0	112.5	

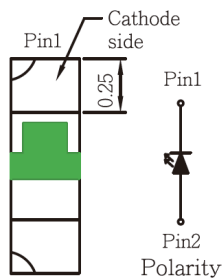
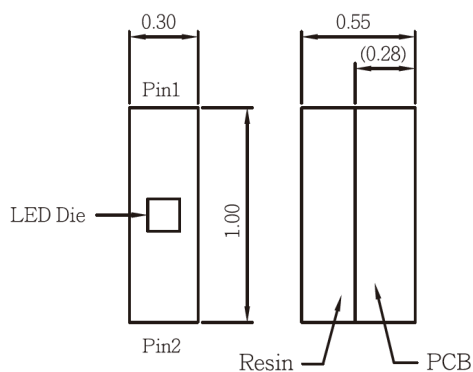
Package Dimension / Internal Circuit



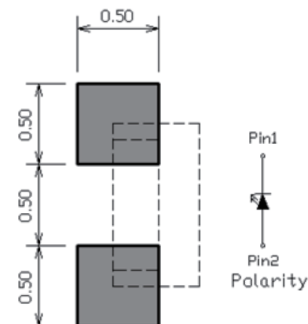
Side View PLCC LEDs



Inquiry



Soldering pattern



Part Number	Size(mm) L*W*H	Emitting color	λd (nm)/CIE (x,y) Typ.	Forward Voltage(V) Typ.	Luminous Intensity(mcd) Typ.	IF(mA)
OPS-L0310W	1.0*0.3*0.55	White	X=0,290 Y=0,285	2.9	71.5	20
OPS-L0310LB		Blue	470	2.8	28.5	
OPS-L0310PG		Pure Green	525	2.8	285.0	
OPS-L0310LE		Red	624	2.0	112.2	

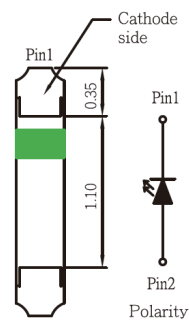
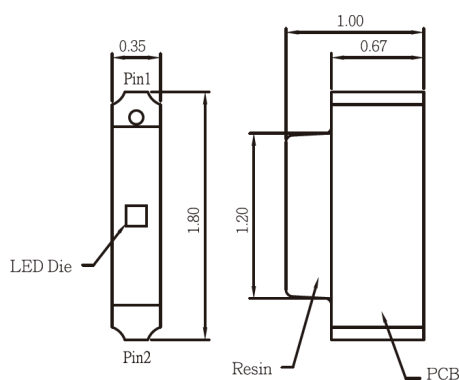
Package Dimension / Internal Circuit



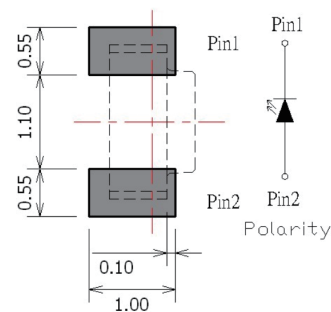
Side View PLCC LEDs



Inquiry



Soldering pattern



Part Number	Size(mm) L*W*H	Emitting color	λd (nm)/CIE (x,y)	Forward Voltage(V)	Luminous Intensity(mcd)	IF(mA)
			Typ.	Typ.	Typ.	
OPS-L0318LB	1.8*0.35*1.0	Blue	470	3.3	112.5	20
OPS-L0318PG		Pure Green	525	2.8	180.0	
OPS-L0318LE		Red	624	2.0	18.0	
OPS-L0318W-5		White	X=0.290 Y=0.285	2.9	120.0	5



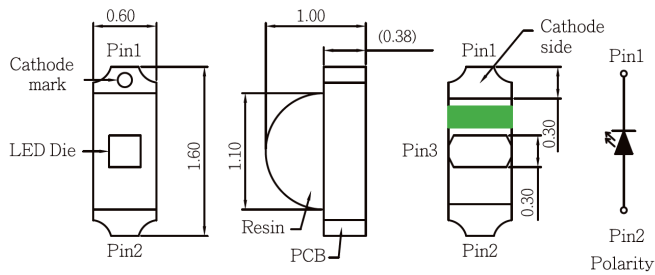
Package Dimension / Internal Circuit



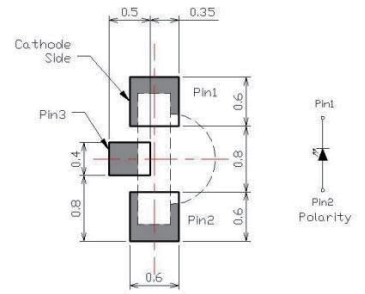
Side View PLCC LEDs



Inquiry



Soldering pattern



Part Number	Size(mm) L*W*H	Emitting color	λd (nm)/CIE (x,y) Typ.	Forward Voltage(V) Typ.	Luminous Intensity(mcd) Typ.	IF(mA)
OPS-L0616W	1.6*0.6*1.0	White	X=0.290 Y=0.285	2.9	120.0	20
OPS-L0616LB		Blue	470	3.3	71.5	
OPS-L0616PG		Pure Green	525	3.3	285	
OPS-L0616YG		Yellow Green	571	2.1	112.5	
OPS-L0616LY		Yellow	589	2.0	112.5	
OPS-L0616LA		Amber	605	2.0	71.5	
OPS-L0616LE		Red	624	2.0	112.5	

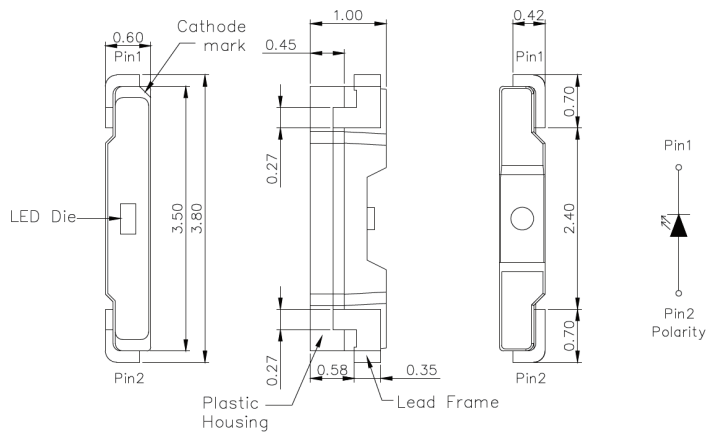
Package Dimension / Internal Circuit



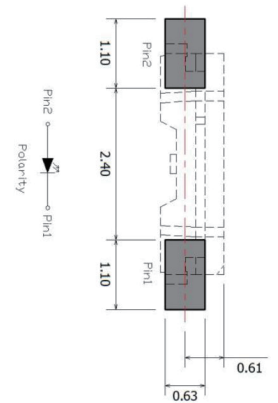
Side View PLCC LEDs



Inquiry



Soldering pattern



Part Number	Size(mm) L*W*H	Emitting color	λd (nm)/CIE (x,y) Typ.	Forward Voltage(V) Typ.	Luminous Intensity(mcd) Typ.	IF(mA)
OPS-L0638W	0.6*3.8*1.0	White	X=0.285 Y=0.265	3.2	2685	20
OPS-L0638LB		Blue	470	3.3	450.0	
OPS-L0638PG		Pure Green	525	2.9	1800.0	
OPS-L0638LE		Red	624	2.1	900.0	



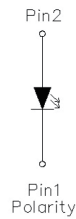
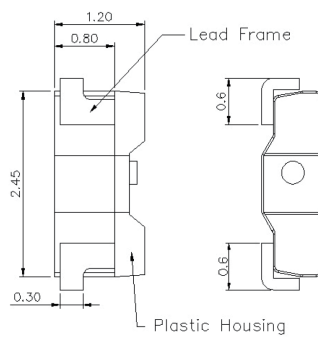
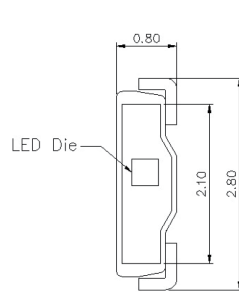
Package Dimension / Internal Circuit



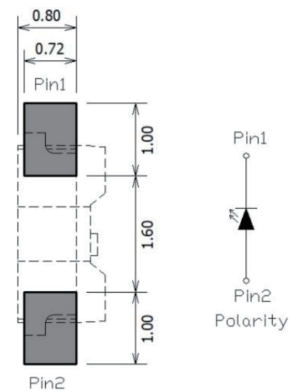
Side View PLCC LEDs



Inquiry



Soldering pattern



Part Number

Size(mm) L*W*H

Emitting color

λ_d (nm)/CIE (x,y)

Typ.

Forward Voltage(V)

Typ.

Luminous Intensity(mcd)

Typ.

IF(mA)

OPS-L0828W

White

X=0.3200 Y=0.3238

3.2

2500

OPS-L0828LB

Blue

470

3.1

180.5

OPS-L0828PG

Pure Green

525

3.1

1120.0

OPS-L0828LE

Red

624

2.1

1000.0

20

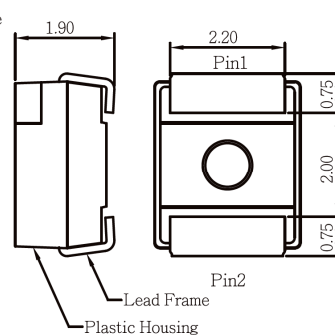
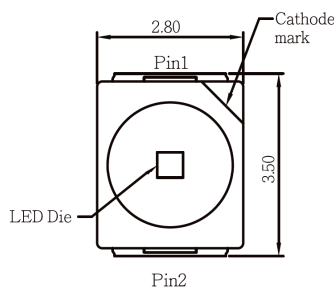
Package Dimension / Internal Circuit



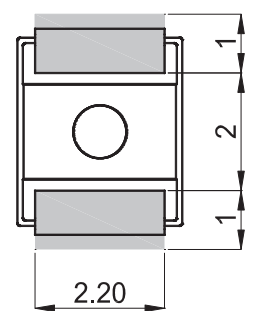
Top View PLCC LEDs



Inquiry



Soldering pattern



Part Number

Size(mm) L*W*H

Emitting color

λ_d (nm)/CIE (x,y)

Typ.

Forward Voltage(V)

Typ.

Luminous Intensity(mcd)

Typ.

IF(mA)

OPS-L3528W

White

X=0.315 Y=0.315

3.2

2250.0

OPS-L3528LB

Blue

465

3.3

300.0

OPS-L3528PG

Pure Green

525

3.2

1500.0

OPS-L3528YG

Yellow Green

574

2.0

112.5

OPS-L3528LY

Yellow

594

2.1

300.0

OPS-L3528LA

Amber

611

2.1

450.0

OPS-L3528LE

Red

630

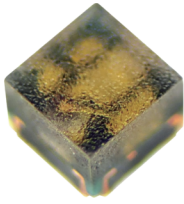
2.0

1100.0

20



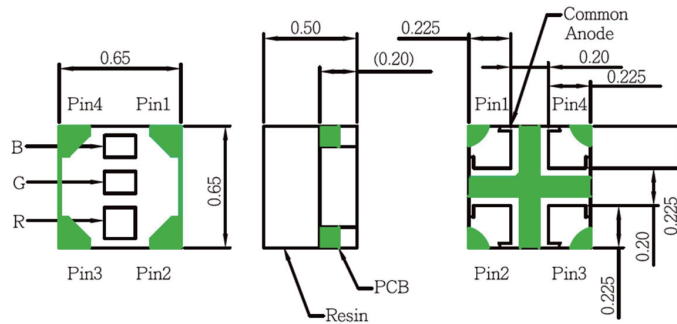
Package Dimension / Internal Circuit



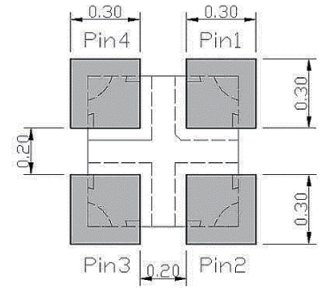
0202 RGB Series



Inquiry



Soldering pattern



Part Number

Size(mm)
L*W*H

Emitting
color

λd (nm)/CIE
(x,y)

Forward
Voltage(V)

Luminous
Intensity(mcd)

IF(mA)

Typ.

Typ.

Typ.

OPS-L0202F2A

0.65*0.65*0.50

Red

621

2.1

32.0

5 (R)

Pure Green

530

2.8

46.0

2 (G&B)

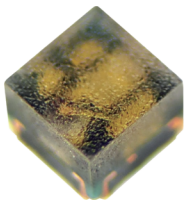
Blue

469

2.8

8.0

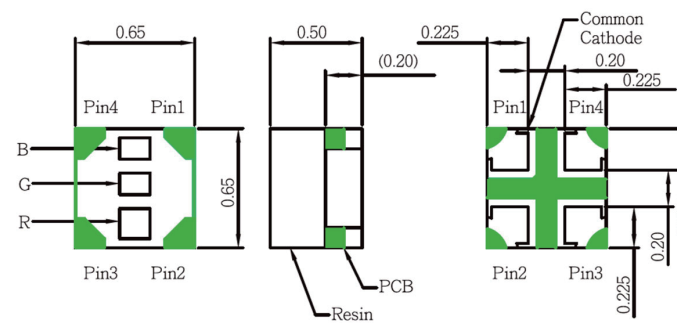
Package Dimension / Internal Circuit



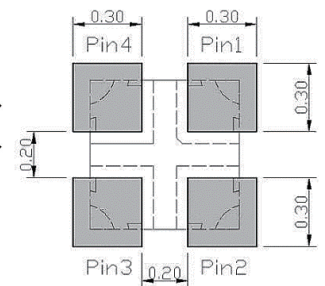
0202 RGB Series



Inquiry



Soldering pattern



Part Number

Size(mm)
L*W*H

Emitting
color

λd (nm)/CIE
(x,y)

Forward
Voltage(V)

Luminous
Intensity(mcd)

IF(mA)

Typ.

Typ.

Typ.

OPS- L0202F2C

0.65*0.65*0.50

Red

621

2.1

32.0

5 (R)

Pure Green

530

2.8

46.0

2 (G&B)

Blue

469

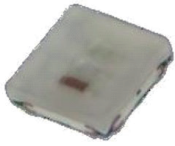
2.8

8.0



SMD LEDs

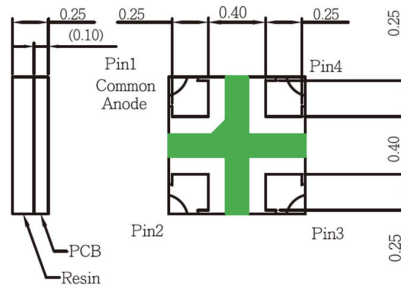
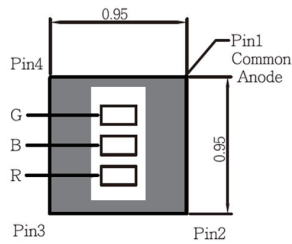
Package Dimension / Internal Circuit



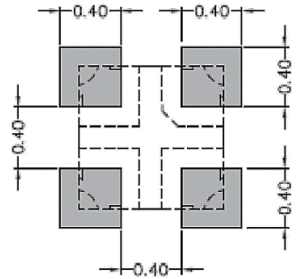
0404 RGB Series



Inquiry



Soldering pattern



Part Number

Size(mm) L*W*H

Emitting color

λ_d (nm)/CIE (x,y)

Forward Voltage(V)

Luminous Intensity(mcd)

IF(mA)

Typ.

Typ.

Typ.

OPS-L0404F1A

0.95*0.95*0.25

Red

622

2.2

165.0

Pure Green

525

2.9

440.0

Blue

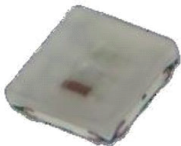
466

3.0

85.0

5 (R)
2 (G&B)

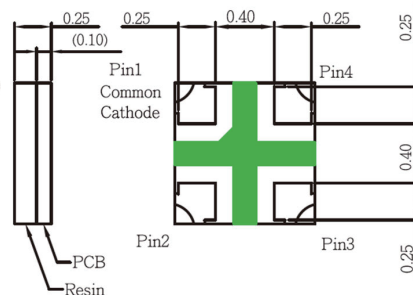
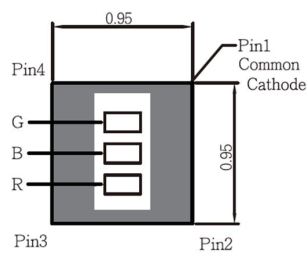
Package Dimension / Internal Circuit



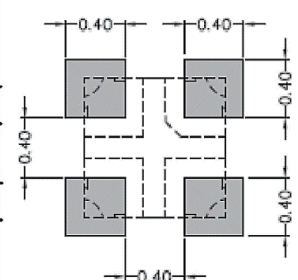
0404 RGB Series



Inquiry



Soldering pattern



Part Number

Size(mm) L*W*H

Emitting color

λ_d (nm)/CIE (x,y)

Forward Voltage(V)

Luminous Intensity(mcd)

IF(mA)

Typ.

Typ.

Typ.

OPS-L0404F1C

0.95*0.95*0.25

Red

622

2.2

165.0

Pure Green

525

2.9

440.0

Blue

466

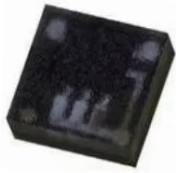
3.0

85.0

5 (R)
2 (G&B)



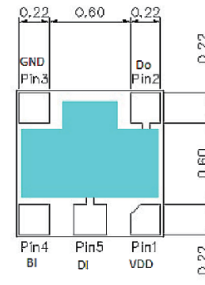
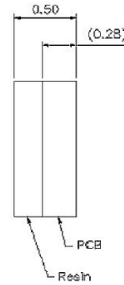
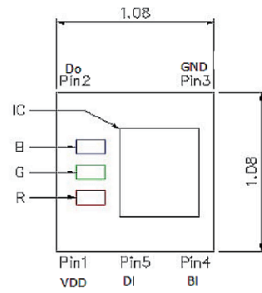
Package Dimension / Internal Circuit



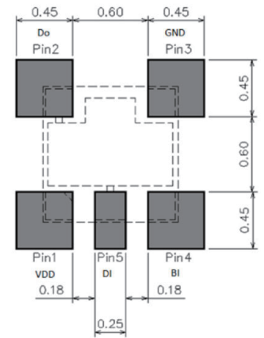
0404 Programmable RGB LED Series



Inquiry



Soldering pattern



Part Number

Size(mm)
L*W*H

Emitting
color

λ d (nm)/CIE
(x,y)

Supply
Voltage(V)

Luminous
Intensity(mcd)

Programmable

OPS-L0404F6

1.08*1.08*0.5

Red

624

5.0

65.0

With Backup
Data Signal
Input

Pure Green

523

5.0

85.0

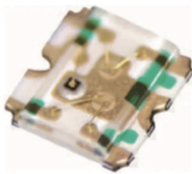
Blue

470

5.0

20.0

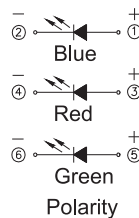
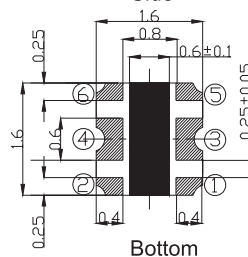
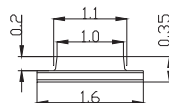
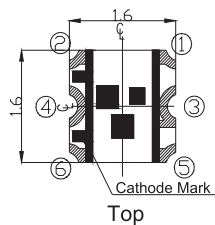
Package Dimension / Internal Circuit



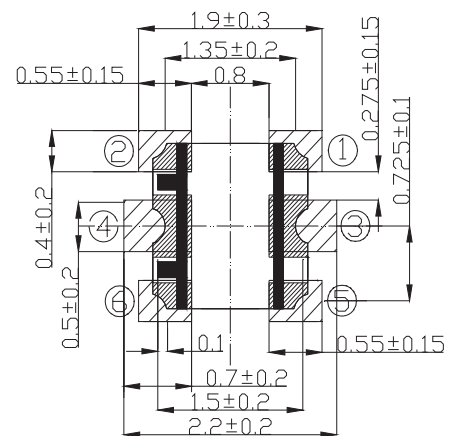
0606 RGB Series



Inquiry



Soldering pattern



Part Number

Size(mm)
L*W*H

Emitting
color

λ d (nm)/CIE
(x,y)

Forward
Voltage(V)

Luminous
Intensity(mcd)

IF(mA)

OPS-L1616F0

1.6*1.6*0.35

Red

621

2.0

112.0

10

Pure Green

522

3.0

225.0

Blue

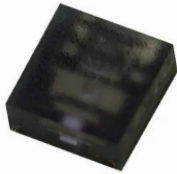
470

3.0

72.0



Package Dimension / Internal Circuit

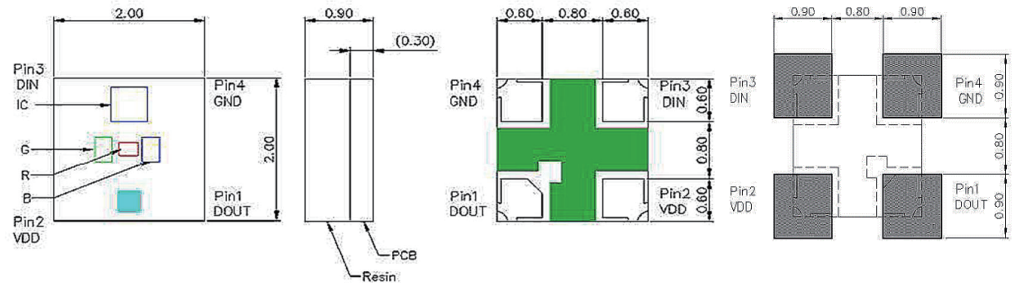


0808 Programmable RGB LED Series



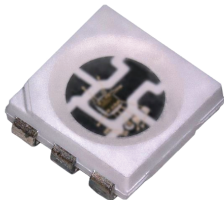
Inquiry

Soldering pattern



Part Number	Size(mm) L*W*H	Emitting color	λ_d (nm)/CIE (x,y) Typ.	Supply Voltage(V) Typ.	Luminous Intensity(mcd) Typ.	Programmable
OPS-L0808F5	2.0*2.0*0.9	Red	624	5.0	65.0	Data Signal Input
		Pure Green	523	5.0	85.0	
		Blue	470	5.0	20.0	

Package Dimension / Internal Circuit

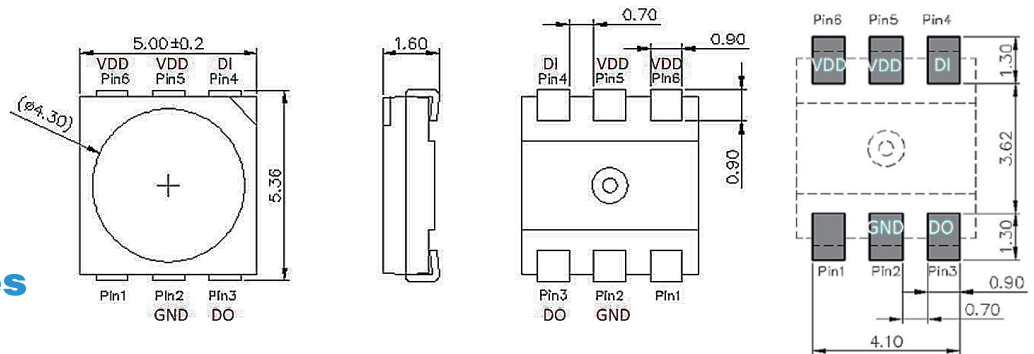


2020 Programmable RGB PLCC LED Series



Inquiry

Soldering pattern



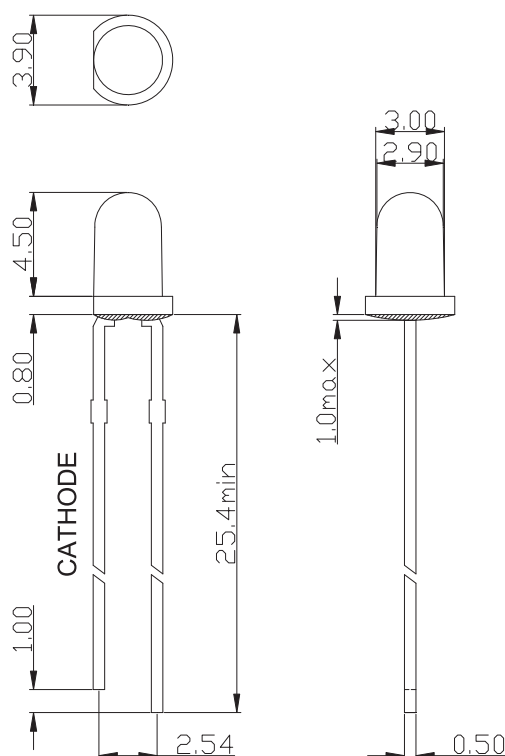
Part Number	Size(mm) L*W*H	Emitting color	λ_d (nm)/CIE (x,y) Typ.	Supply Voltage(V) Typ.	Luminous Intensity(mcd) Typ.	Programmable
OPS-L2020F7	5.0*5.0*1.6	Red	624	5.0	600.0	Data Signal Input
		Pure Green	523	5.0	900.0	
		Blue	470	5.0	250.0	



3 mm Round Standard LED



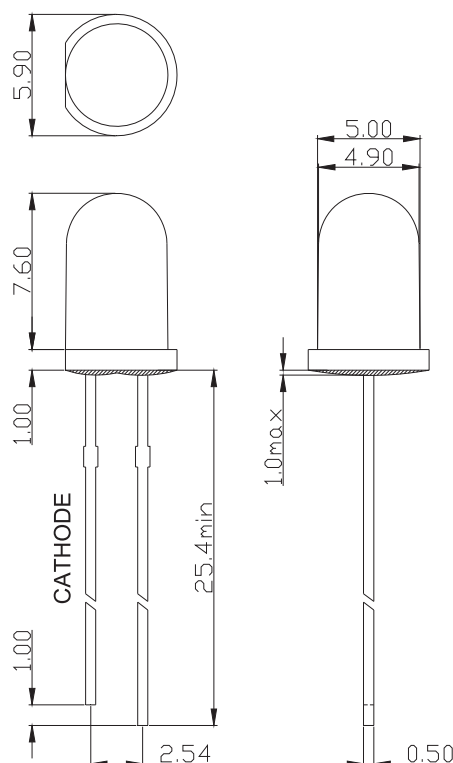
Inquiry



Part Number	IF = 20 mA		Wavelength(nm) λ_d @ IF = 20mA (Dice materials)	Lens Color	Viewing Angle (deg) 201/2
	$V_F(V)$ Typ.	$I_V(mcd)$ Typ.			
OPL-3014WC-30	3.2	2800	- White	Water Clear	30
OPL-3014LBC-30	3.2	2800	470 Blue	Water Clear	
OPL-3014PGC-30	3.2	3000	525 Pure Green	Water Clear	
OPL-3014YGC-30	2.0	900	572 Yellow Green	Water Clear	
OPL-3014LYC-30	2.2	1800	590 Yellow	Water Clear	
OPL-3014LAC-30	2.0	1800	610 Amber	Water Clear	
OPL-3014LEC-30	2.0	1800	632 Orange Red	Water Clear	
OPL-3014LRC-30	2.2	900	645 Red	Water Clear	
OPL-3014LBT-30	3.2	2200	470 Blue	Blue Transparent	
OPL-3014PGT-30	3.2	2400	525 Pure Green	Green Transparent	
OPL-3014YGT-30	2.0	700	570 Yellow Green	Green Transparent	30
OPL-3014LYT-30	2.2	1400	590 Yellow	Yellow Transparent	
OPL-3014LAT-30	2.0	1400	610 Amber	Amber Transparent	
OPL-3014LET-30	2.0	1400	632 Orange Red	Red Transparent	
OPL-3014LRT-30	2.2	700	645 Red	Red Transparent	
OPL-3014WD-60	3.2	1600	- White	White Diffused	60
OPL-3014LBD-60	3.2	1600	470 Blue	Blue Diffused	
OPL-3014PGD-60	3.2	1800	525 Pure Green	Green Diffused	
OPL-3014YG-60	2.0	500	570 Yellow Green	Green Diffused	
OPL-3014LYD-60	2.2	1000	590 Yellow	Yellow Diffused	
OPL-3014LAD-60	2.0	1000	610 Amber	Amber Diffused	
OPL-3014LED-60	2.0	1000	632 Orange Red	Red Diffused	
OPL-3014LRD-60	2.2	500	645 Red	Red Diffused	



5 mm Round Standard LED



Part Number	IF = 20 mA		Wavelength(nm) λ_d @ IF = 20mA (Dice materials)	Lens Color	Viewing Angle (deg) 201/2
	$V_F(V)$ Typ.	$I_V(mcd)$ Typ.			
OPL-5013WC-30	3.2	2500	- White	Water Clear	30
OPL-5013LBC-30	3.2	2500	470 Blue	Water Clear	
OPL-5013PGC-30	3.2	3000	525 Pure Green	Water Clear	
OPL-5013YGC-30	2.0	700	572 Yellow Green	Water Clear	
OPL-5013LYC-30	2.2	2000	590 Yellow	Water Clear	
OPL-5013LAC-30	2.0	2000	610 Amber	Water Clear	
OPL-5013LEC-30	2.0	2000	632 Orange Red	Water Clear	
OPL-5013LRC-30	2.2	700	645 Red	Water Clear	
OPL-5013LBC-30	3.2	2000	470 Blue	Blue Transparent	
OPL-5013PGT-30	3.2	2400	525 Pure Green	Green Transparent	
OPL-5013YGT-30	2.0	500	570 Yellow Green	Green Transparent	30
OPL-5013LYT-30	2.2	1600	590 Yellow	Yellow Transparent	
OPL-5013LAT-30	2.0	1600	610 Amber	Amber Transparent	
OPL-5013LET-30	2.0	1600	632 Orange Red	Red Transparent	
OPL-5013LRT-30	2.2	500	645 Red	Red Transparent	
OPL-5013WD-60	3.2	1500	White	White Diffused	
OPL-5013LBD-60	3.2	1500	470 Blue	Blue Diffused	
OPL-5013PGD-60	3.2	1800	525 Pure Green	Green Diffused	
OPL-5013YGD-60	2.0	400	570 Yellow Green	Green Diffused	
OPL-5013LYD-60	2.2	1200	590 Yellow	Yellow Diffused	
OPL-5013LAD-60	2.0	1200	610 Amber	Amber Diffused	60
OPL-5013LED-60	2.0	1200	632 Orange Red	Red Diffused	
OPL-5013LRD-60	2.2	400	645 Red	Red Diffused	



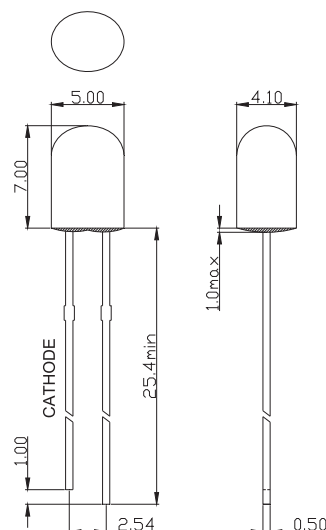
Package Dimension / Internal Circuit



5 mm Elliptical Wide Angle LED



Inquiry



Part Number

IF = 20 mA

V_F(V)
Typ. I_V(mcd)
Typ.

Wavelength(nm) λ_d @ IF = 20mA (Dice materials)

Lens Color

Viewing Angle (deg) 2θ1/2

OPL-5103WD

3.2 1000

- White

White Diffused

OPL-5103LBD

3.2 1000

470 Blue

Blue Diffused

OPL-5103PGD

3.2 1500

525 Pure Green

Green Diffused

X-X

OPL-5103YGD

2.0 300

572 Yellow Green

Green Diffused

110

OPL-5103LYD

2.2 500

590 Yellow

Yellow Diffused

Y-X

OPL-5103LAD

2.0 500

610 Amber

Amber Diffused

40

OPL-5103LED

2.0 500

632 Orange Red

Red Diffused

OPL-5103LRD

2.2 300

645 Red

Red Diffused

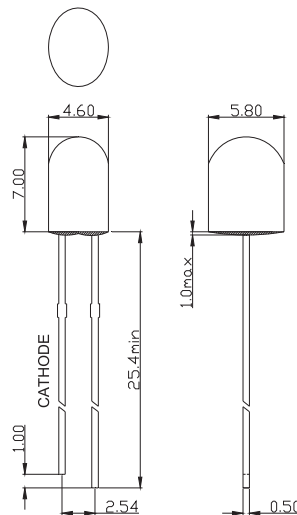
Package Dimension / Internal Circuit



5 mm Elliptical Wide Angle LED



Inquiry



Part Number

IF = 20 mA

V_F(V)
Typ. I_V(mcd)
Typ.

Wavelength(nm) λ_d @ IF = 20mA (Dice materials)

Lens Color

Viewing Angle (deg) 2θ1/2

OPL-5203WD

3.2 1000

- White

White Diffused

OPL-5203LBD

3.2 1000

470 Blue

Blue Diffused

OPL-5203PGD

3.2 1500

525 Pure Green

Green Diffused

X-X

OPL-5203YGD

2.0 300

572 Yellow Green

Green Diffused

30

OPL-5203LYD

2.2 500

590 Yellow

Yellow Diffused

Y-X

OPL-5203LAD

2.0 500

610 Amber

Amber Diffused

70

OPL-5203LED

2.0 500

632 Orange Red

Red Diffused

OPL-5203LRD

2.2 300

645 Red

Red Diffused



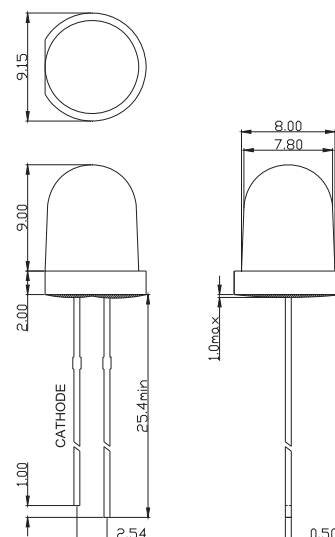
Package Dimension / Internal Circuit



8 mm Round Standard LED



Inquiry



Part Number	IF = 20 mA		Wavelength(nm) λ_d @ IF = 20mA (Dice materials)	Lens Color	Viewing Angle (deg) 2 θ 1/2
	V_F (V) Typ.	I_V (mcd) Typ.			
OPL-8013WD-60	3.2	1000	- White	White Diffused	60
OPL-8013LBD-60	3.2	1000	470 Blue	Blue Diffused	
OPL-8013PGD-60	3.2	1500	525 Pure Green	Green Diffused	
OPL-8013YGD-60	2.0	300	572 Yellow Green	Green Diffused	
OPL-8013LYD-60	2.2	500	590 Yellow	Yellow Diffused	
OPL-8013LAD-60	2.0	500	610 Amber	Amber Diffused	
OPL-8013LED-60	2.0	500	632 Orange Red	Red Diffused	
OPL-8013LRD-60	2.2	300	645 Red	Red Diffused	

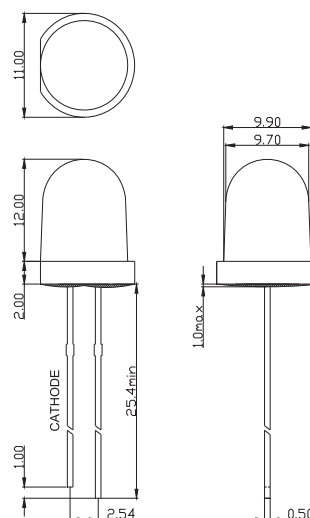
Package Dimension / Internal Circuit



10 mm Round Standard LED



Inquiry



Part Number	IF = 20 mA		Wavelength(nm) λ_d @ IF = 20mA (Dice materials)	Lens Color	Viewing Angle (deg) 2 θ 1/2
	V_F (V) Typ.	I_V (mcd) Typ.			
OPL-10013WD-60	3.2	1000	- White	White Diffused	60
OPL-10013LBD-60	3.2	1000	470 Blue	Blue Diffused	
OPL-10013PGD-60	3.2	1500	525 Pure Green	Green Diffused	
OPL-10013YGD-60	2.0	300	572 Yellow Green	Green Diffused	
OPL-10013LYD-60	2.2	600	590 Yellow	Yellow Diffused	
OPL-10013LAD-60	2.0	600	610 Amber	Amber Diffused	
OPL-10013LED-60	2.0	600	632 Orange Red	Red Diffused	
OPL-10013LRD-60	2.2	300	645 Red	Red Diffused	



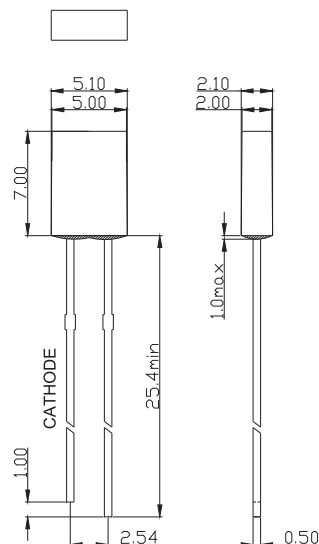
Package Dimension / Internal Circuit



2.0X5.0 mm Rectangular Flangeless LED



Inquiry



Part Number	IF = 20 mA		Wavelength(nm) λ_d @ IF = 20mA (Dice materials)	Lens Color	Viewing Angle (deg) 2 θ 1/2
	V_F (V) Typ.	I_V (mcd) Typ.			
OPL-2503WD-100	3.2	1500	- White	White Diffused	100
OPL-2503LBD-100	3.2	1500	470 Blue	Blue Diffused	
OPL-2503PGD-100	3.2	1800	525 Pure Green	Green Diffused	
OPL-2503YGD-100	2.0	400	572 Yellow Green	Green Diffused	
OPL-2503LYD-100	2.2	1200	590 Yellow	Yellow Diffused	
OPL-2503LAD-100	2.0	1200	610 Amber	Amber Diffused	
OPL-2503LED-100	2.0	1200	632 Orange Red	Red Diffused	
OPL-2503LRD-100	2.2	400	645 Red	Red Diffused	

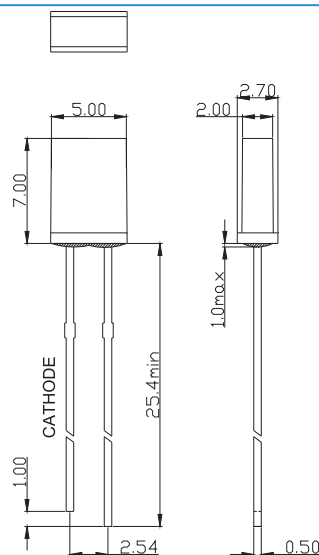
Package Dimension / Internal Circuit



2.0X5.0 mm Rectangular LED With Flange



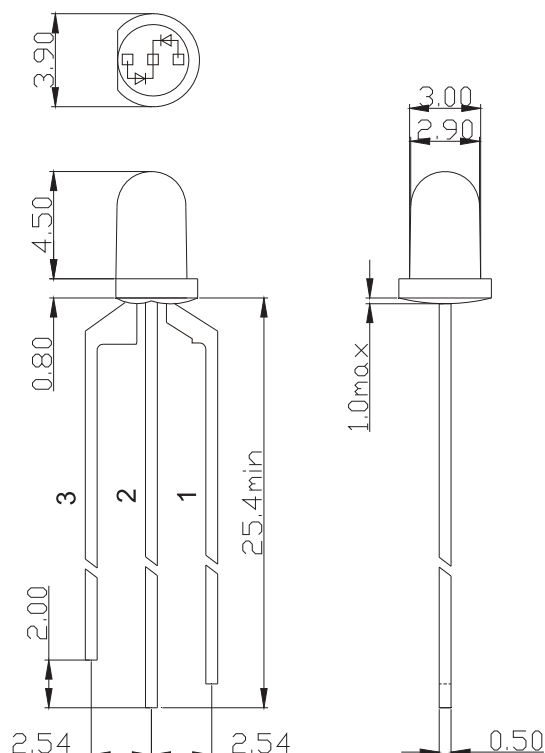
Inquiry



Part Number	IF = 20 mA		Wavelength(nm) λ_d @ IF = 20mA (Dice materials)	Lens Color	Viewing Angle (deg) 2 θ 1/2
	V_F (V) Typ.	I_V (mcd) Typ.			
OPL-2513WD-100	3.2	1500	- White	White Diffused	100
OPL-2513LBD-100	3.2	1500	470 Blue	Blue Diffused	
OPL-2513PGD-100	3.2	1800	525 Pure Green	Green Diffused	
OPL-2513YGD-100	2.0	400	572 Yellow Green	Green Diffused	
OPL-2513LYD-100	2.2	1200	590 Yellow	Yellow Diffused	
OPL-2513LAD-100	2.0	1200	610 Amber	Amber Diffused	
OPL-2513LED-100	2.0	1200	632 Orange Red	Red Diffused	
OPL-2513LRD-100	2.2	400	645 Red	Red Diffused	

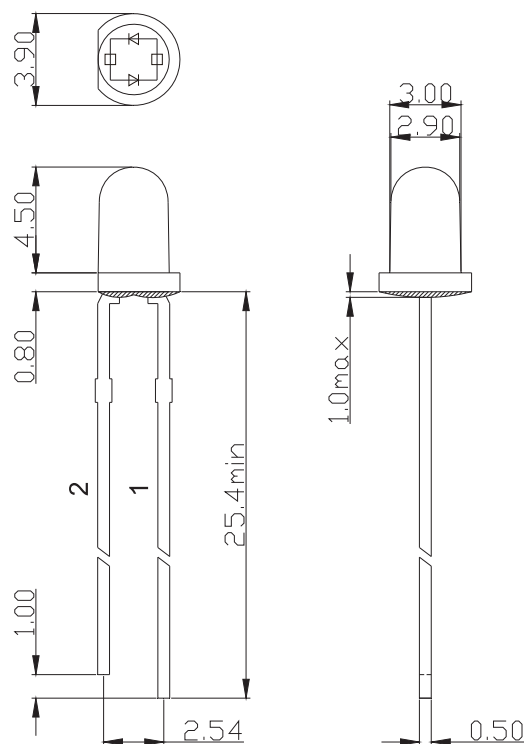


OPL-3015XX



	GREEN	RED ORANGE YELLOW
PIN 1	ANODE	
PIN 2	CATHODE	CATHODE
PIN 3		ANODE

OPL-3017XX



	GREEN	RED ORANGE YELLOW
PIN 1	ANODE	
PIN 2	CATHODE	CATHODE
PIN 3		CATHODE

Part Number

IF = 20 mA

V_f (V)
Typ. I_v (mcd)
Typ.

OPL-3015PGLEW-60

3.2 1600
2.0 1000

OPL-3015YGLEW-60

2.0 500
2.0 1000

OPL-3017PGLEW-60

3.2 1600
2.0 1000

OPL-3017YGLEW-60

2.0 500
2.0 1000

OPL-3015XX

- -

OPL-3017XX

- -

Wavelength(nm) λ_d @ IF = 20mA (Dice materials)

525 Pure Green

632 Orange Red

572 Yellow Green

632 Orange Red

525 Pure Green

632 Orange Red

572 Yellow Green

632 Orange Red

Any color available (1)

Any color available (2)

Lens Color

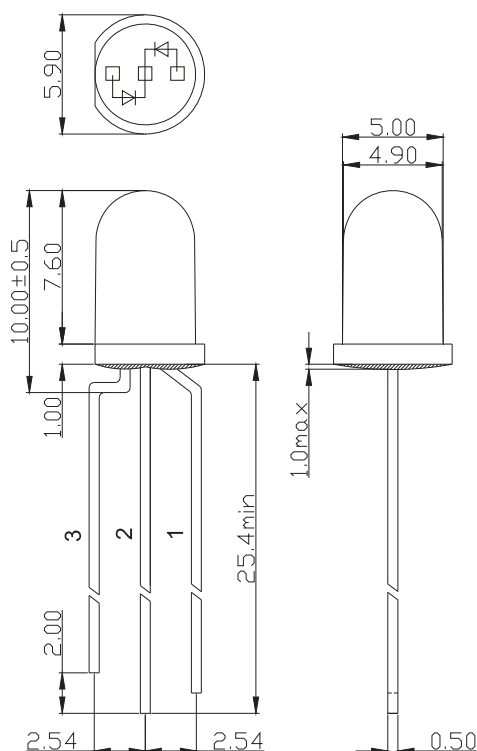
White Diffused

Viewing Angle (deg) 2 θ /2

60

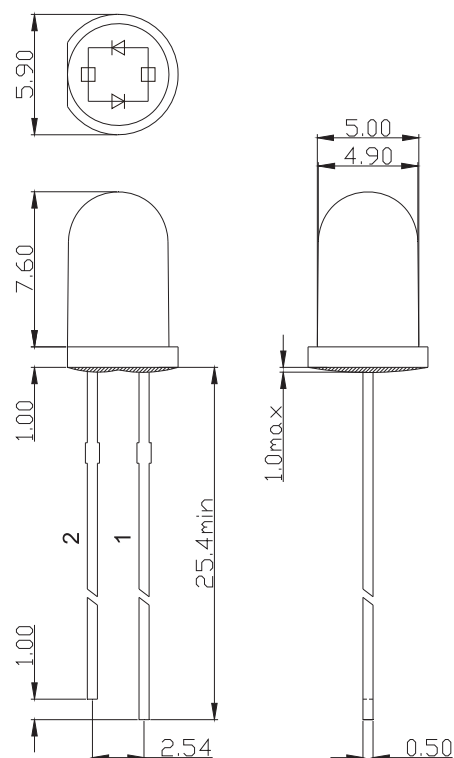


OPL-5019XX



	GREEN	RED ORANGE YELLOW
PIN 1	ANODE	
PIN 2	CATHODE	CATHODE
PIN 3		ANODE

OPL-5017XX



	GREEN	RED ORANGE YELLOW
PIN 1	ANODE	
PIN 2	CATHODE	CATHODE
PIN 3		ANODE

Part Number

IF = 20 mA

$V_F(V)$ Typ. $I_V(mcd)$ Typ.

OPL-5019PGLW-60

3.2 1800
2.0 1200

OPL-5019YGLW-60

2.0 400
2.0 1200

OPL-5017PGLW-60

3.2 1800
2.0 1200

OPL-5017YGLW-60

2.0 400
2.0 1200

OPL-5019XX

- -

OPL-5017XX

- -

Wavelength(nm)
 λ_d @ IF = 20mA
(Dice materials)

525 Pure Green

632 Orange Red

572 Yellow Green

632 Orange Red

525 Pure Green

632 Orange Red

572 Yellow Green

632 Orange Red

Any color available (1)

Any color available (2)

Lens
Color

White Diffused

Viewing Angle
(deg) 201/2

60



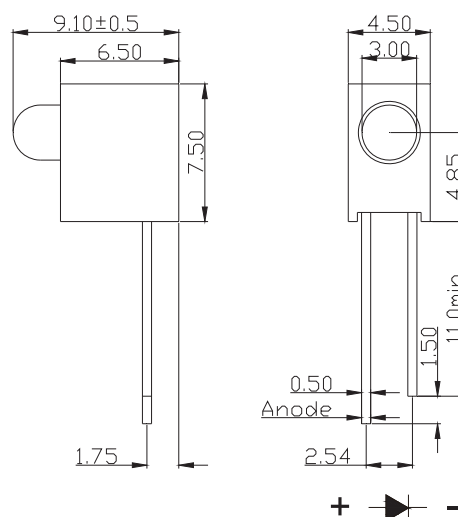
Package Dimension / Internal Circuit



3 mm 1PCS Round Holder LED



Inquiry



Part Number

IF = 20 mA

V_F(V)
Typ. I_V(mcd)
Typ.

Wavelength(nm)
λ_d @ IF = 20mA
(Dice materials)

Lens
Color

Viewing Angle
(deg) 2θ1/2

OPL-3014WD-H1	3.2	1600
OPL-3014LBD-H1	3.2	1600
OPL-3014PGD-H1	3.2	1600
OPL-3014YGD-H1	2.0	500
OPL-3014LYD-H1	2.2	1000
OPL-3014LAD-H1	2.0	1000
OPL-3014LED-H1	2.0	1000
OPL-3014LRD-H1	2.2	500

-	White
470	Blue
525	Pure Green
572	Yellow Green
590	Yellow
610	Amber
632	Orange Red
645	Red

White Diffused
Blue Diffused
Green Diffused
Green Diffused
Yellow Diffused
Amber Diffused
Red Diffused
Red Diffused

60

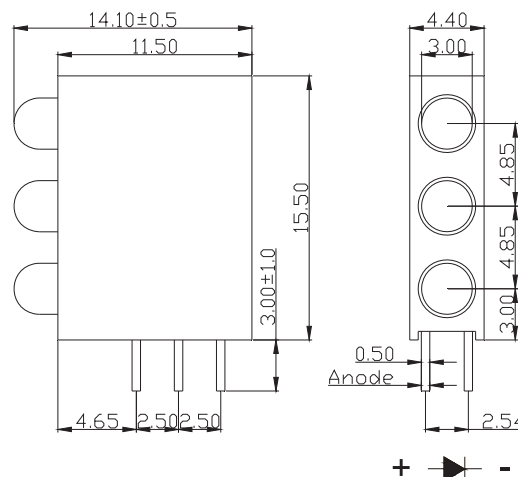
Package Dimension / Internal Circuit



3 mm 3 PCS Round Holder LED



Inquiry



Part Number

IF = 20 mA

V_F(V)
Typ. I_V(mcd)
Typ.

Wavelength(nm)
λ_d @ IF = 20mA
(Dice materials)

Lens
Color

Viewing Angle
(deg) 2θ1/2

OPL-3014WD-H3	3.2	1600
OPL-3014LBD-H3	3.2	1600
OPL-3014PGD-H3	3.2	1600
OPL-3014YGD-H3	2.0	500
OPL-3014LYD-H3	2.2	1000
OPL-3014LAD-H3	2.0	1000
OPL-3014LED-H3	2.0	1000
OPL-3014LRD-H3	2.2	500

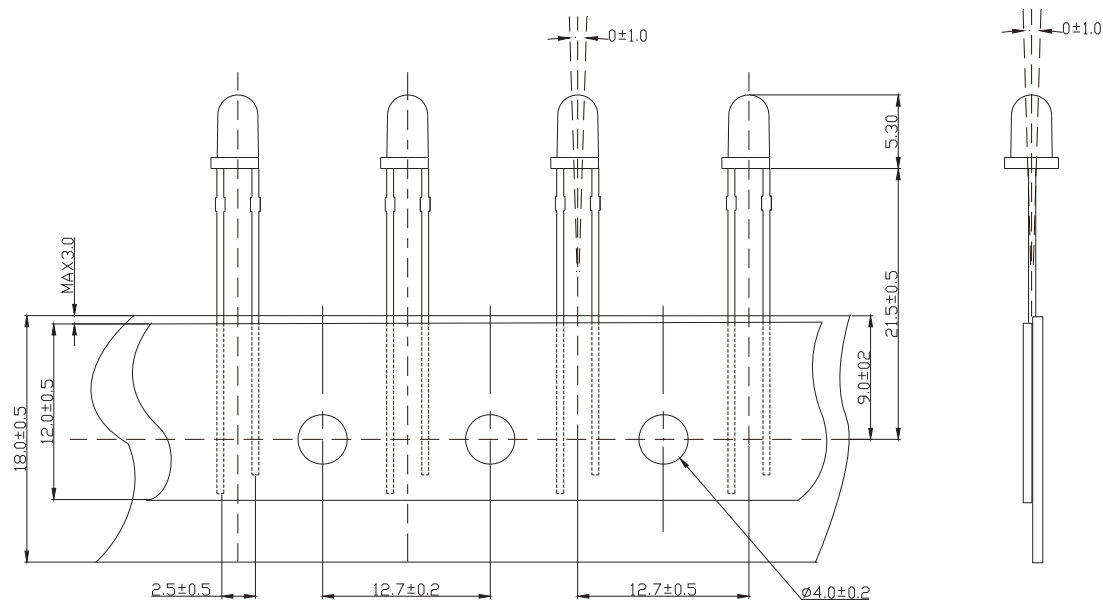
-	White
470	Blue
525	Pure Green
572	Yellow Green
590	Yellow
610	Amber
632	Orange Red
645	Red

White Diffused
Blue Diffused
Green Diffused
Green Diffused
Yellow Diffused
Amber Diffused
Red Diffused
Red Diffused

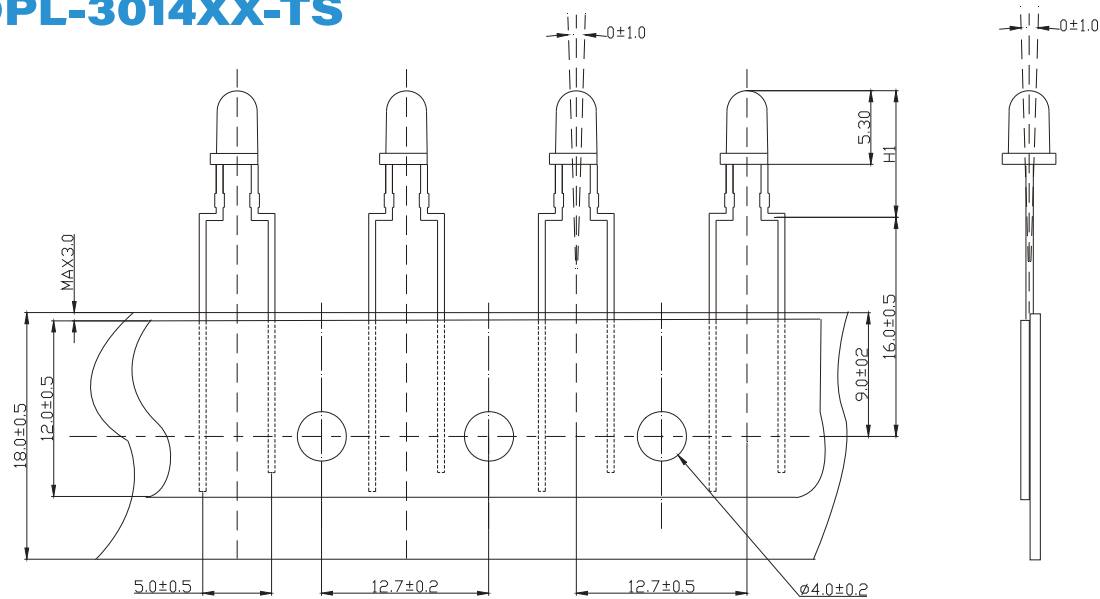
60



Tape LED Lamps OPL-3014XX-T



Tape LED Lamps OPL-3014XX-TS

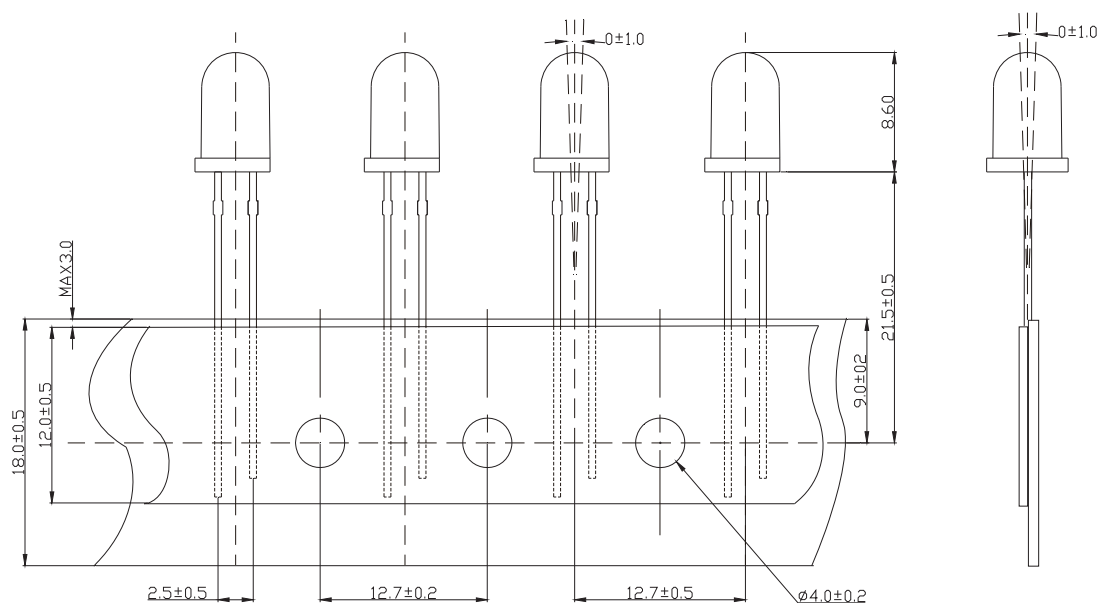


Forming H1 Dimensiond(mm)

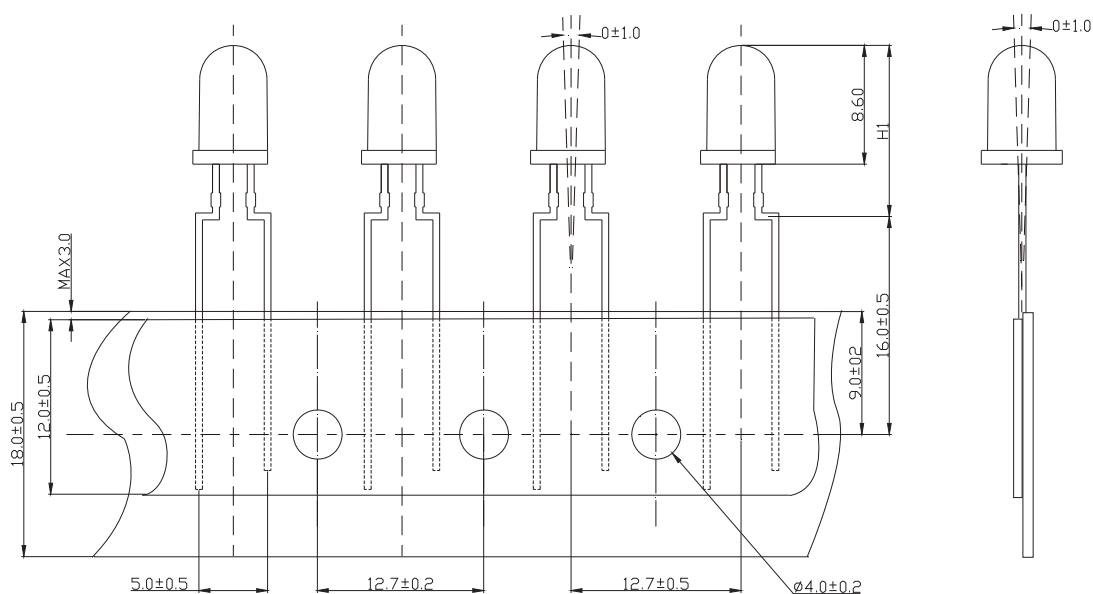
CF	CG	CJ	CK	CL	CM	CP
11	12	14	15	16	17	18



Tape LED Lamps OPL-5013XX-T



Tape LED Lamps OPL-5013XX-TS



Forming H1 Dimensiond(mm)						
CB	CE	CF	CG	CH	CJ	CK
8	9	11	12	13	14	15





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