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THROUGH HOLE DISPLAY



OPTO PLUS
LED CORP. 展躍光電



The Perfect Supplier for
LED Products



Taiwan Professional LED Manufacturer

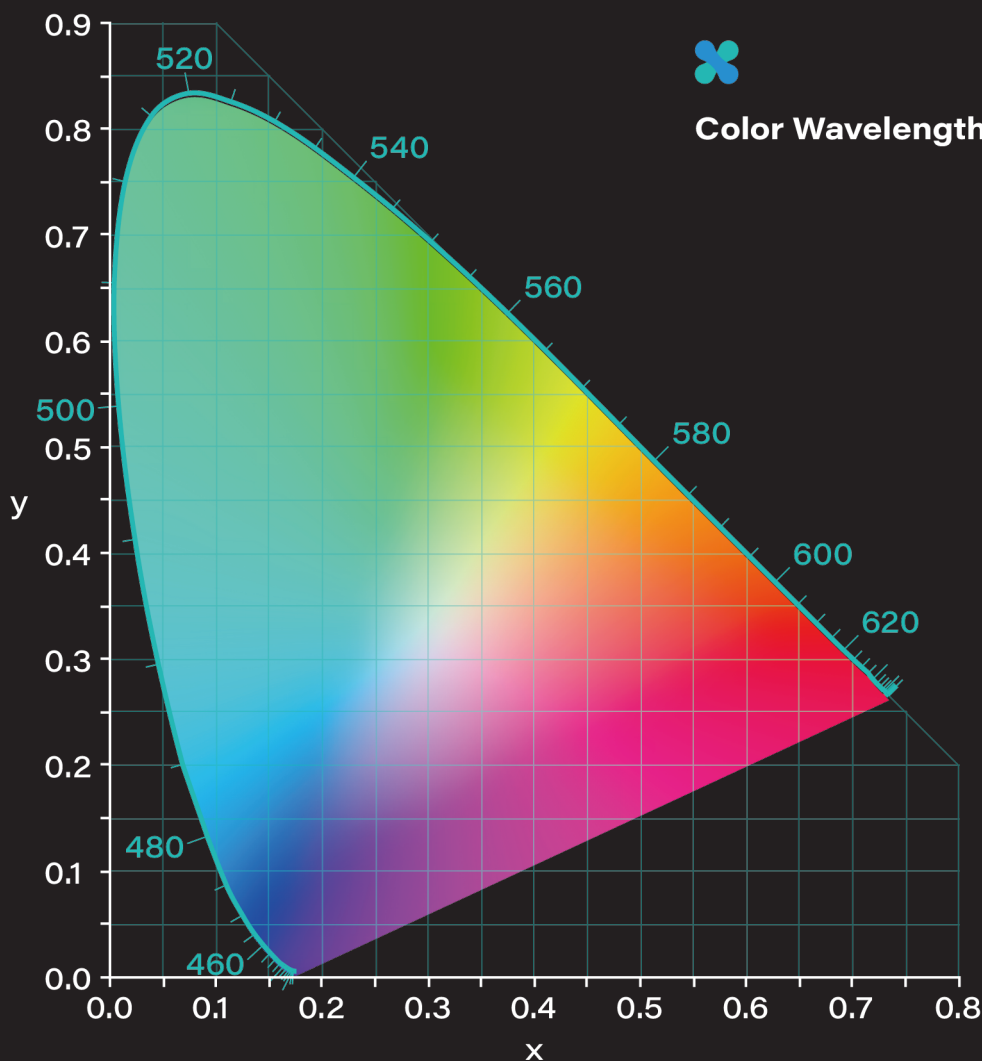
Opto Plus LED Corp. is a professional LED manufacturer in Taiwan. We can provide you one stop, total solution for all LEDs application, no matter from LED product design to complicate LED modules design.

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.

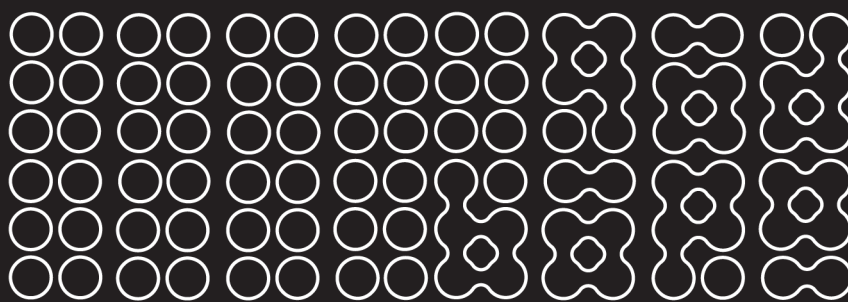


Color Wavelength & Color Temperature.

CIE 1931 Chromaticity Diagram

PART NUMBER SYSTEM

Part Number **OPD-D3910LB-GW**



O P D - D 3 9 1 0 L B - G W

Through Hole Display



Digit Size

39=0.39"

56=0.56"

80=0.8"

100=1.0"



Number of 7-Segment Digits

S=Single Digit

D=Dual Digits

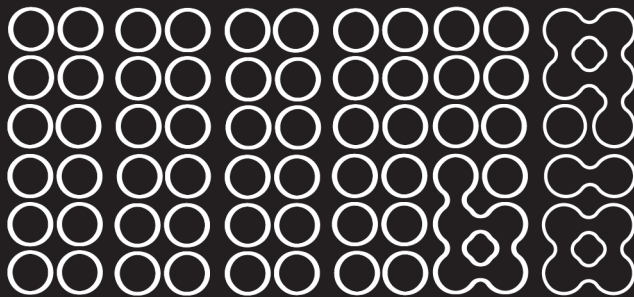
T=Triple Digits

Q=Quadruple Digits

Ax(S,D,T,Q)=Alphanumeric

PART NUMBER SYSTEM

Part Number **OPD-D3910LB-GW**



Face Color

G=Gray face

B=Black face

OPD-D3910LB-GW



Reflector Code

REF Code

White Segment

Emitting color

Example: YG=570nm

LB=470nm Blue

LE=625nm Red

LR=640nm Red

Common Anode / Cathode

Anode=Even number

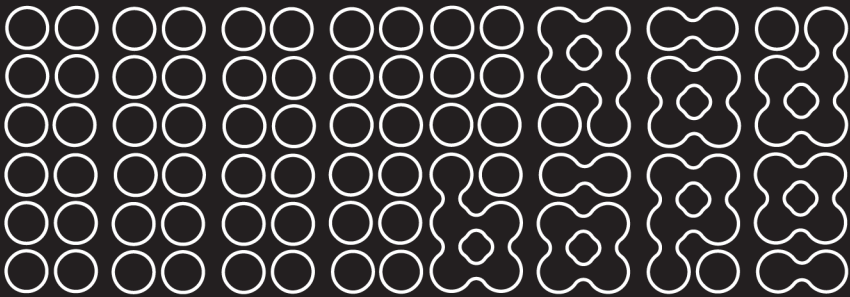
Cathode=Odd number





PART NUMBER SYSTEM

Part Number **OPD - M 2 8 8 1 0 L B - G W**



OPD - M 2 8 8 1 0 L B - G W

Through Hole Display

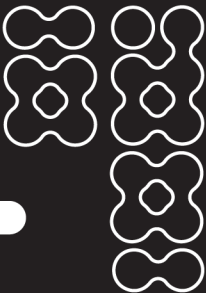


Dot Matrix LED Display

Dot Number

58=5x8
88=8x8

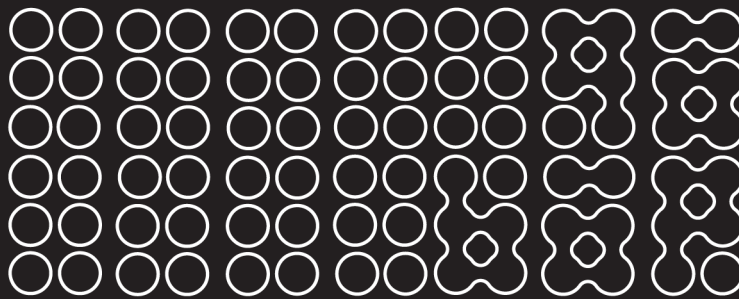
57=5x7



Dot Matrix LED Display

PART NUMBER SYSTEM

Part Number **OPD-M28810LB-GW**

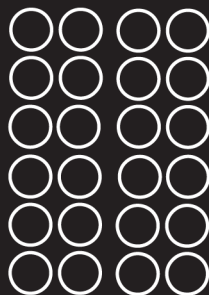


Face Color

G=Gray face

B=Black face

OPD-M288 **1** **0** **LB** - **G** **W**



Reflector Code

REF Code

White Segment

Emitting color

Example: YG=570nm LB=470nm Blue

LE=625nm Red

LR=640nm Red

UPGUE=Pure Green+Red

Common Anode / Cathode

Anode=Even number

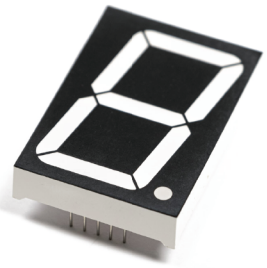
Cathode=Odd number



CONTENTS

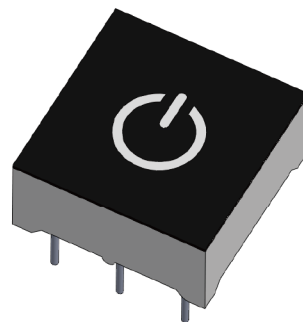
Digit Display

- 16 Single Digit 7-Segment Display
- 33 Dual Digit 7-Segment Display
- 40 Triple Digit 7-Segment Display
- 48 Quadruple Digit 7-Segment Display
- 57 Alphanumeric Display



Dot Matrix Display

67 Dot Matrix Display



RGB Display

71 RGB Display

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APPLICATION NOTES

for THT LED Display



THT DISPLAY



LED DISPLAY

Please check the newest and complete application for your application.

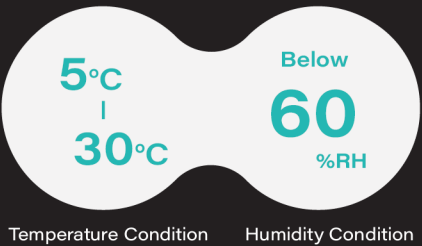
● Scope

Through Hole LED Display is suitable for general module design 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.

⌘ Storage

When the package is unopened, the standard storage condition:

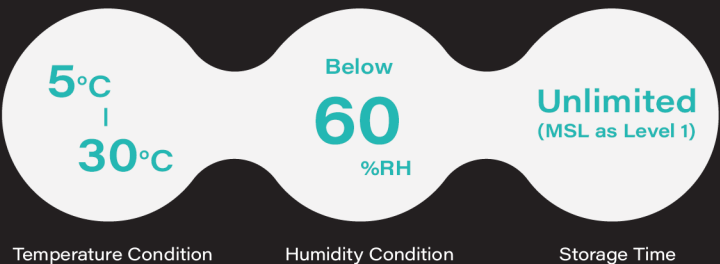
THT LED Display



If the storage conditions do not meet specification standards, the pins may become oxidized Suggest to do re-plating and re-sorting before use, and suggest customers use out the products as soon as possible, and avoid long-term storage of large inventories.

When the package is opened, the storage condition:

THT LED Display

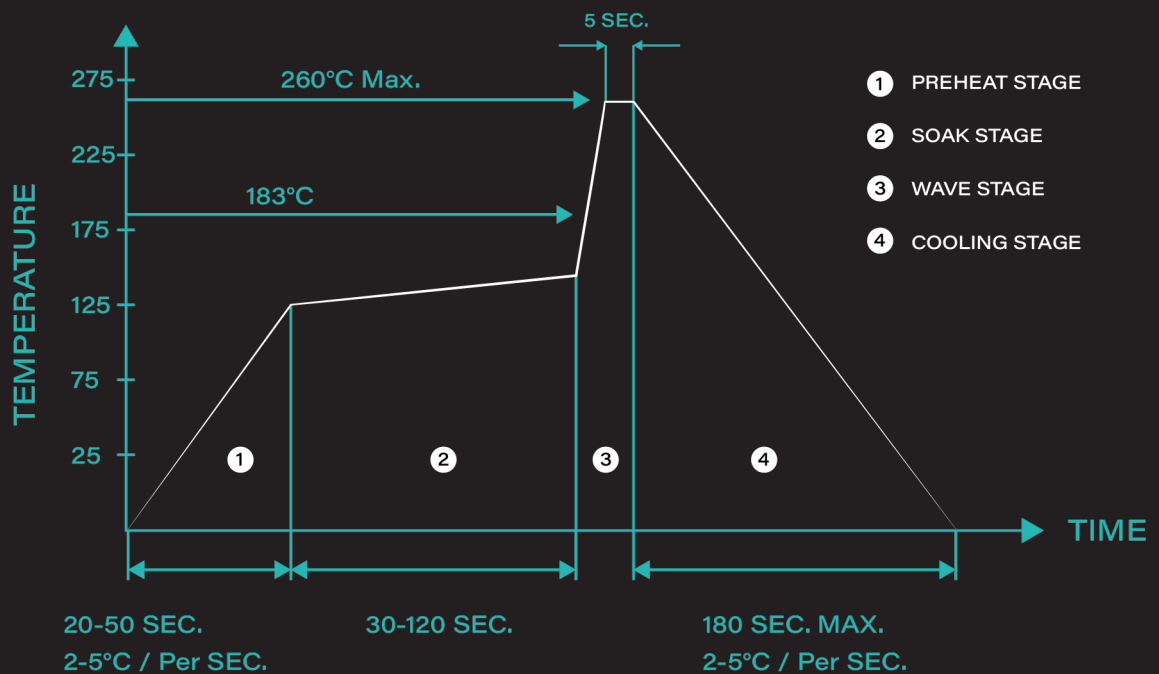


Soldering

- Recommend pre-heat temperature of 105°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 ~ 225°C for 3 sec (5 sec max).
- No more than one wave soldering pass.

All THT LED Display should refer to Data Sheet

WAVE SOLDER PROFILE



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."

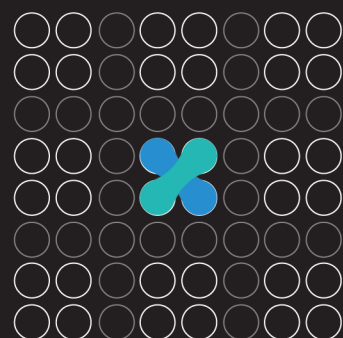
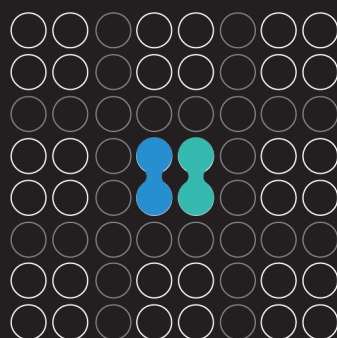
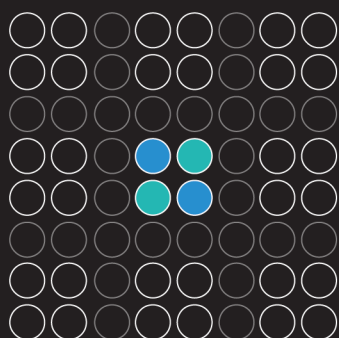


OPTO PLUS LED CORP.

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.



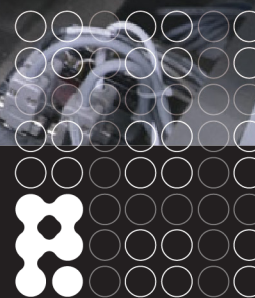
SMT Production Lines



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

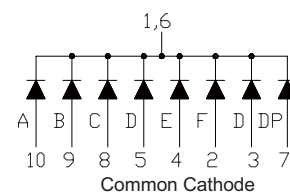
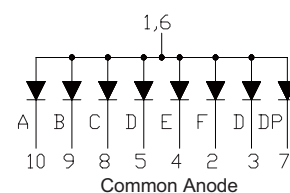
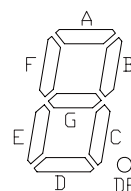
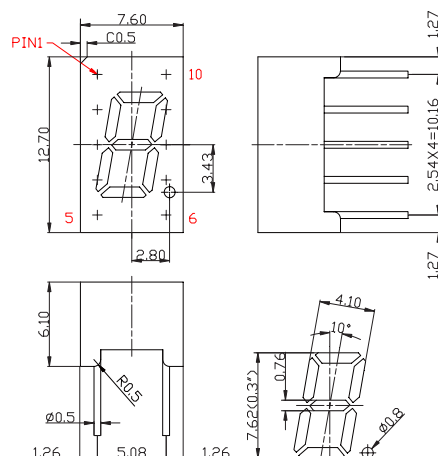
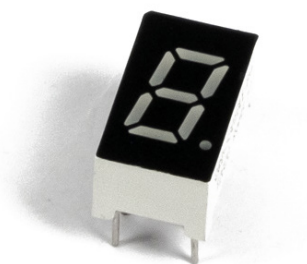
All products undergo several inspection processes, and we perform 100% quality control before shipping.

Factory Environment





Package Dimension / Internal Circuit



0.30" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S3010LB	OPD-S3011LB
OPD-S3010UPG	OPD-S3011UPG
OPD-S3010YG	OPD-S3011YG
OPD-S3010LY	OPD-S3011LY
OPD-S3010LA	OPD-S3011LA
OPD-S3010LE	OPD-S3011LE
OPD-S3010LR	OPD-S3011LR

IF = 20 mA

V_F(V)
Typ.

I_V(mcd)
Typ.

3.0	40
3.0	160
2.1	15
2.1	40
2.0	40
2.1	40
2.1	15

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

470 InGaN

525 InGaN

570 AlGaNInP

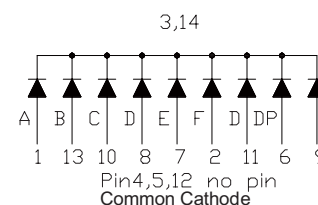
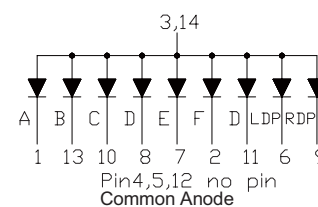
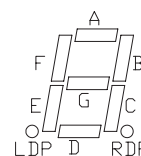
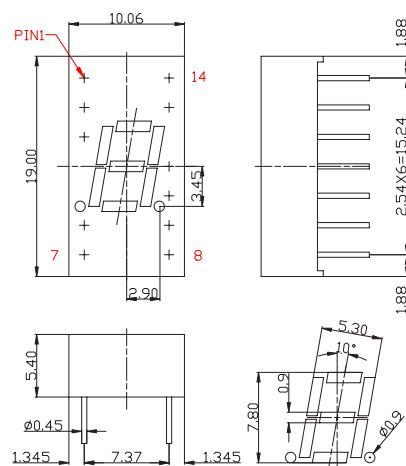
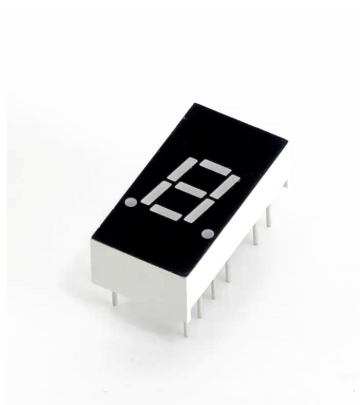
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.30" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S3020LB	OPD-S3021LB
OPD-S3020UPG	OPD-S3021UPG
OPD-S3020YG	OPD-S3021YG
OPD-S3020LY	OPD-S3021LY
OPD-S3020LA	OPD-S3021LA
OPD-S3020LE	OPD-S3021LE
OPD-S3020LR	OPD-S3021LR

IF = 20 mA

V_F(V)
Typ.

I_V(mcd)
Typ.

3.0	40
3.0	160
2.1	15
2.1	40
2.0	40
2.1	40
2.1	15

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

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

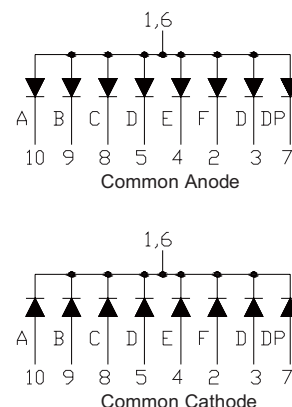
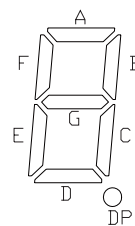
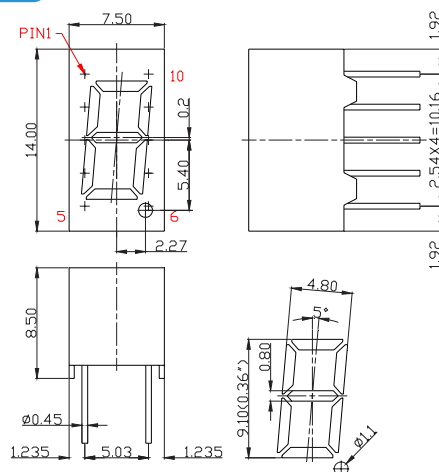
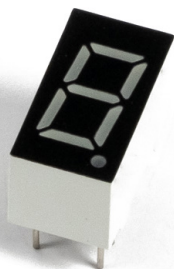
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



0.36" Single digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPD-S3610W2	OPD-S3611W2
OPD-S3610LB	OPD-S3611LB
OPD-S3610UPG	OPD-S3611UPG
OPD-S3610YG	OPD-S3611YG
OPD-S3610LY	OPD-S3611LY
OPD-S3610LA	OPD-S3611LA
OPD-S3610LE	OPD-S3611LE
OPD-S3610LR	OPD-S3611LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	80
3.0	40
3.0	160
2.1	15
2.1	40
2.0	40
2.1	40
2.1	15

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

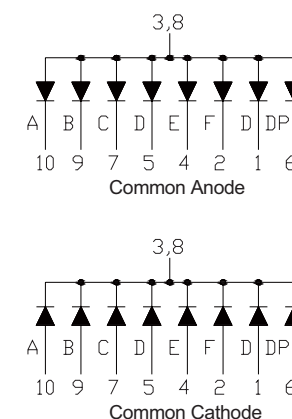
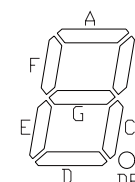
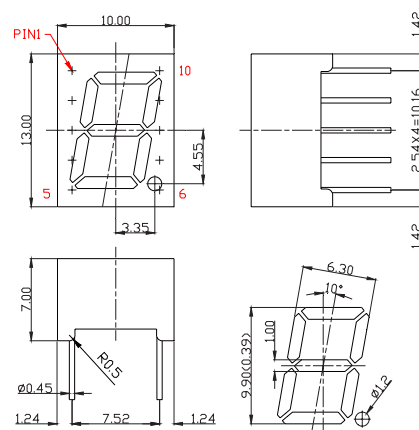
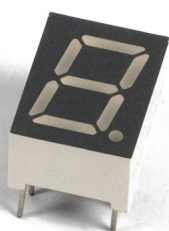
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.39" Single digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPD-S3910W2	OPD-S3911W2
OPD-S3910LB	OPD-S3911LB
OPD-S3910UPG	OPD-S3911UPG
OPD-S3910YG	OPD-S3911YG
OPD-S3910LY	OPD-S3911LY
OPD-S3910LA	OPD-S3911LA
OPD-S3910LE	OPD-S3911LE
OPD-S3910LR	OPD-S3911LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	80
3.0	40
3.0	160
2.1	15
2.1	40
2.0	40
2.1	40
2.1	15

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

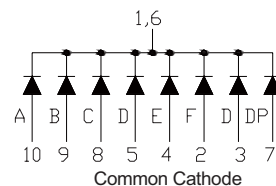
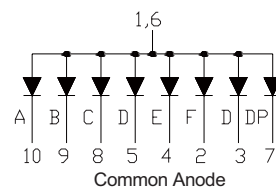
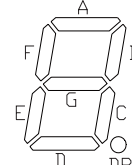
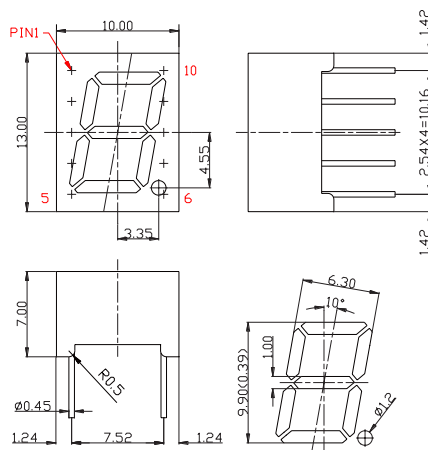
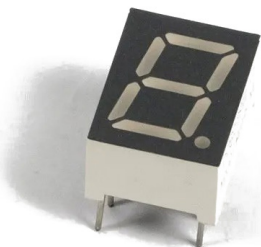
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



0.39" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S3912W2	OPD-S3911W2
OPD-S3912LB	OPD-S3913LB
OPD-S3912UPG	OPD-S3913UPG
OPD-S3912YG	OPD-S3913YG
OPD-S3912LY	OPD-S3913LY
OPD-S3912LA	OPD-S3913LA
OPD-S3912LE	OPD-S3913LE
OPD-S3912LR	OPD-S3913LR

IF = 20 mA

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

3.0	80
3.0	40
2.1	160
2.1	15
2.0	40
2.1	40
2.1	40
2.1	15

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

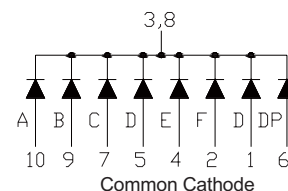
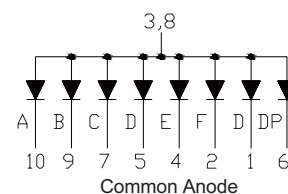
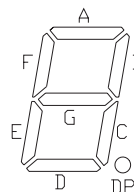
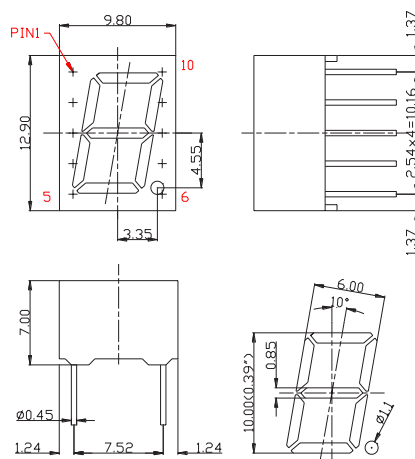
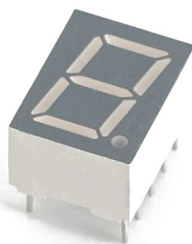
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.39" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S3920LB	OPD-S3921LB
OPD-S3920UPG	OPD-S3921UPG
OPD-S3920YG	OPD-S3921YG
OPD-S3920LY	OPD-S3921LY
OPD-S3920LA	OPD-S3921LA
OPD-S3920LE	OPD-S3921LE
OPD-S3920LR	OPD-S3921LR

IF = 20 mA

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

3.0	40
3.0	160
2.1	15
2.1	40
2.0	40
2.1	40
2.1	15

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

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525 InGaN

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590 AlGaNInP

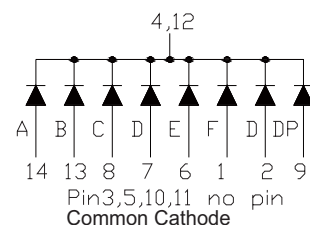
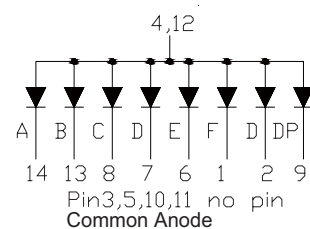
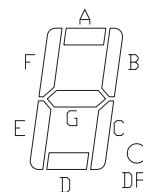
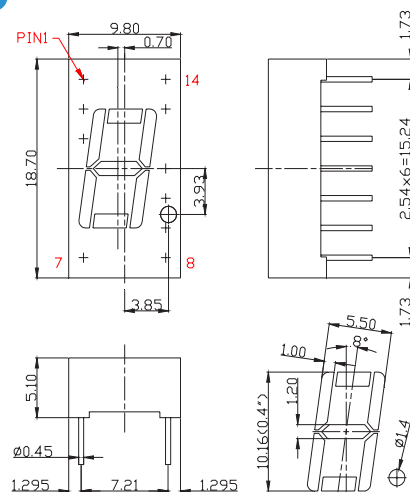
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



0.40" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S4010W2 OPD-S4011W2

OPD-S4010LB OPD-S4011LB

OPD-S4010UPG OPD-S4011UPG

OPD-S4010YG OPD-S4011YG

OPD-S4010LY OPD-S4011LY

OPD-S4010LA OPD-S4011LA

OPD-S4010LE OPD-S4011LE

OPD-S4010LR OPD-S4011LR

IF = 20 mA

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

3.0 80

3.0 40

3.0 160

2.1 15

2.1 40

2.0 40

2.1 40

2.1 15

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

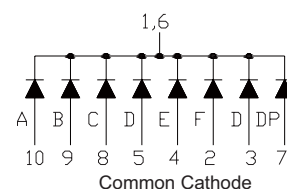
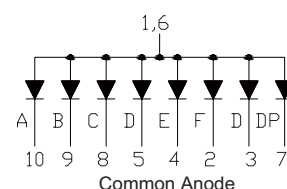
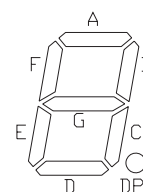
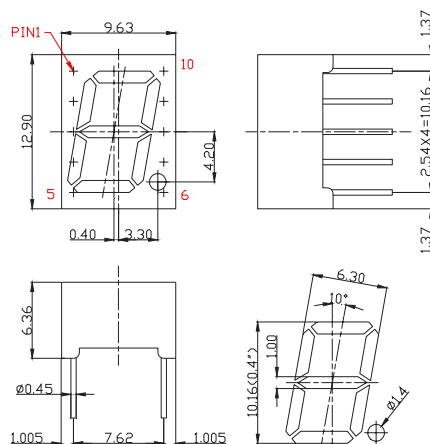
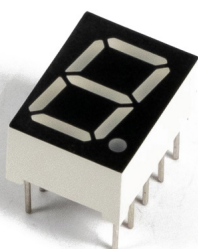
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.40" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S4030W2 OPD-S4031W2

OPD-S4030LB OPD-S4031LB

OPD-S4030UPG OPD-S4031UPG

OPD-S4030YG OPD-S4031YG

OPD-S4030LY OPD-S4031LY

OPD-S4030LA OPD-S4031LA

OPD-S4030LE OPD-S4031LE

OPD-S4030LR OPD-S4031LR

IF = 20 mA

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

3.0 80

3.0 40

3.0 160

2.1 15

2.1 40

2.0 40

2.1 40

2.1 15

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

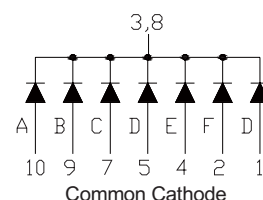
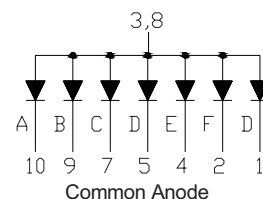
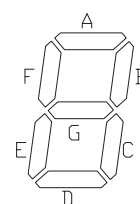
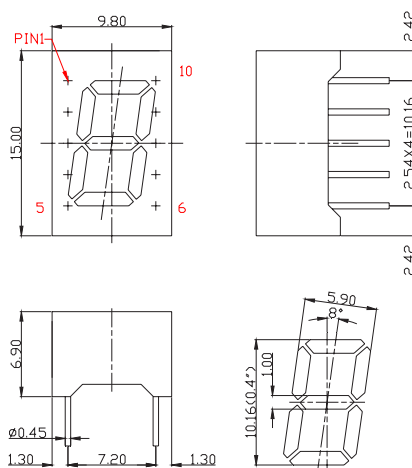
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



0.40" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S4040W	OPD-S4041W
OPD-S4040LB	OPD-S4041LB
OPD-S4040UPG	OPD-S4041UPG
OPD-S4040YG	OPD-S4041YG
OPD-S4040LY	OPD-S4041LY
OPD-S4040LA	OPD-S4041LA
OPD-S4040LE	OPD-S4041LE
OPD-S4040LR	OPD-S4041LR

IF = 20 mA

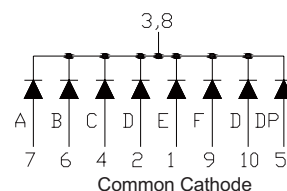
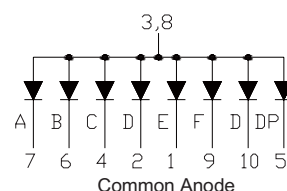
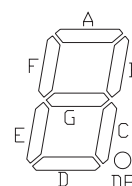
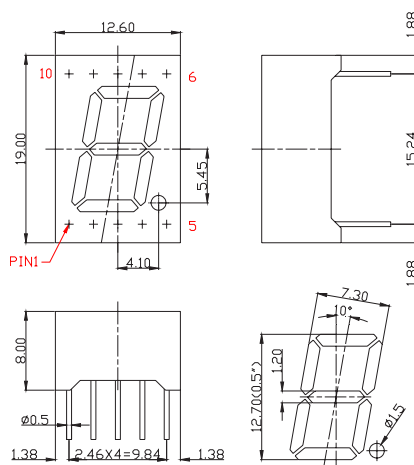
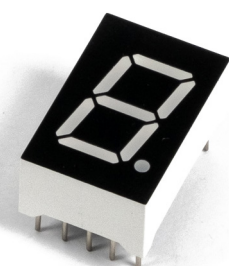
V_F(V) Typ. I_V(mcd) Typ.

3.0	80
3.0	40
3.0	160
2.1	15
2.1	40
2.0	40
2.1	40
2.1	15

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP

Package Dimension / Internal Circuit



0.50" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S5010W	OPD-S5011W
OPD-S5010LB	OPD-S5011LB
OPD-S5010UPG	OPD-S5011UPG
OPD-S5010YG	OPD-S5011YG
OPD-S5010LY	OPD-S5011LY
OPD-S5010LA	OPD-S5011LA
OPD-S5010LE	OPD-S5011LE
OPD-S5010LR	OPD-S5011LR

IF = 20 mA

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

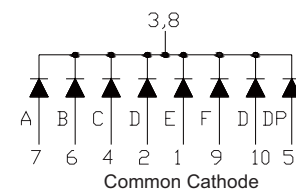
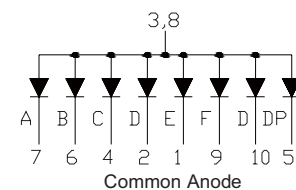
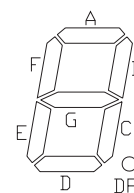
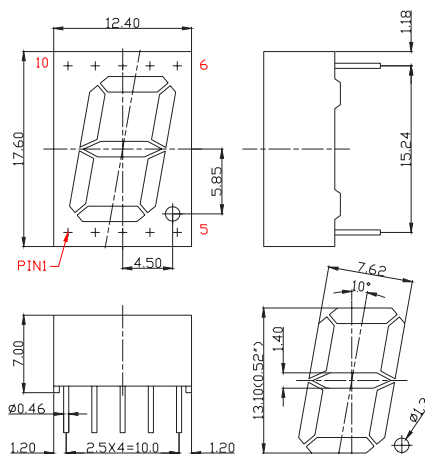
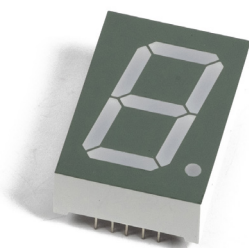
3.0	100
3.0	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP



Package Dimension / Internal Circuit



0.52" Single digits display



Inquiry

Part Number

Common Anode Common Cathode

OPD-S5220W	OPD-S5221W
OPD-S5220LB	OPD-S5221LB
OPD-S5220UPG	OPD-S5221UPG
OPD-S5220YG	OPD-S5221YG
OPD-S5220LY	OPD-S5221LY
OPD-S5220LA	OPD-S5221LA
OPD-S5220LE	OPD-S5221LE
OPD-S5220LR	OPD-S5221LR

IF = 20 mA

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

3.0	100
3.0	60
3.0	250
2.0	20
2.1	60
2.0	60
2.1	60
2.1	20

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

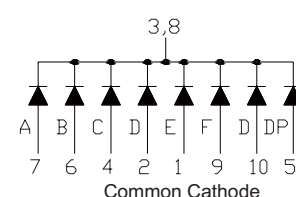
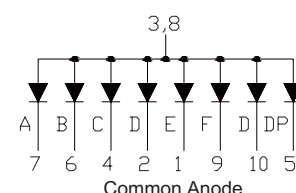
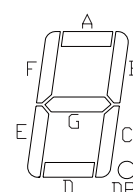
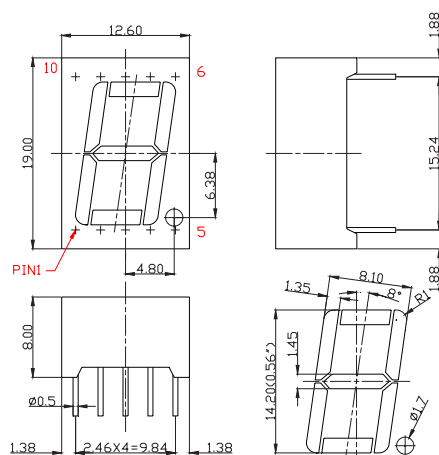
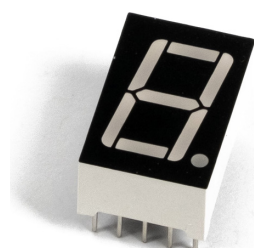
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.56" Single digits display



Inquiry

Part Number

Common Anode Common Cathode

OPD-S5610W	OPD-S5611W
OPD-S5610LB	OPD-S5611LB
OPD-S5610UPG	OPD-S5611UPG
OPD-S5610YG	OPD-S5611YG
OPD-S5610LY	OPD-S5611LY
OPD-S5610LA	OPD-S5611LA
OPD-S5610LE	OPD-S5611LE
OPD-S5610LR	OPD-S5611LR

IF = 20 mA

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

3.0	100
3.0	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

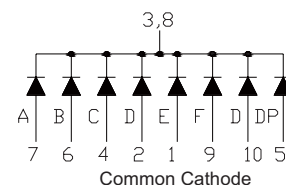
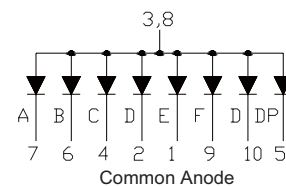
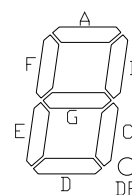
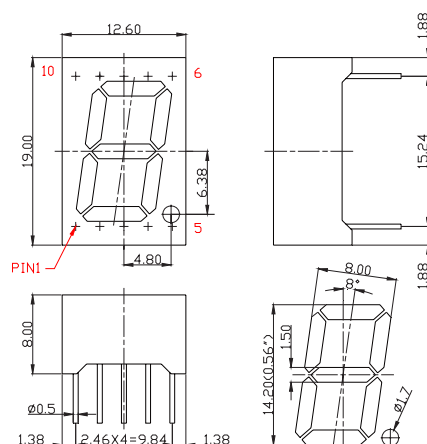
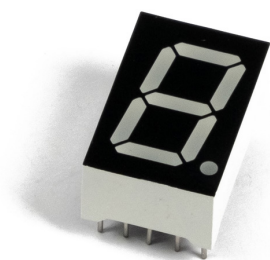
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



0.56" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S5620W	OPD-S5621W
OPD-S5620LB	OPD-S5621LB
OPD-S5620UPG	OPD-S5621UPG
OPD-S5620YG	OPD-S5621YG
OPD-S5620LY	OPD-S5621LY
OPD-S5620LA	OPD-S5621LA
OPD-S5620LE	OPD-S5621LE
OPD-S5620LR	OPD-S5621LR

IF = 20 mA

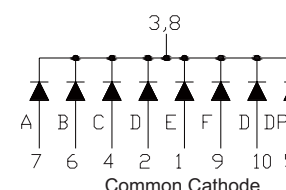
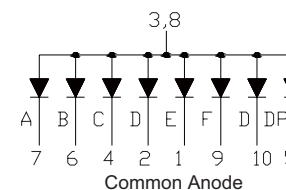
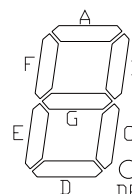
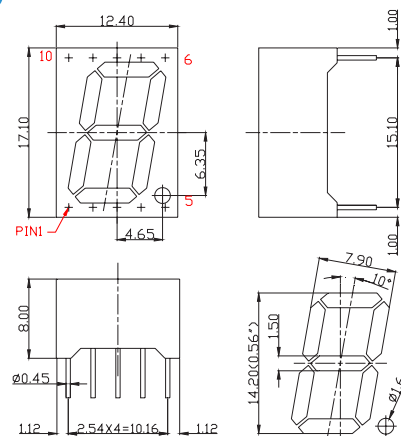
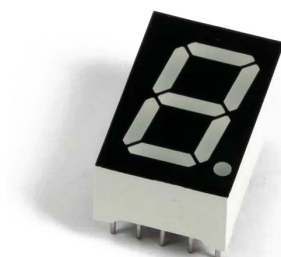
V_F(V) Typ. I_V(mcd) Typ.

3.0	100
3.0	60
3.0	250
2.0	20
2.1	60
2.0	60
2.1	60
2.1	20

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP

Package Dimension / Internal Circuit



0.56" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S5660W	OPD-S5661W
OPD-S5660LB	OPD-S5661LB
OPD-S5660UPG	OPD-S5661UPG
OPD-S5660YG	OPD-S5661YG
OPD-S5660LY	OPD-S5661LY
OPD-S5660LA	OPD-S5661LA
OPD-S5660LE	OPD-S5661LE
OPD-S5660LR	OPD-S5661LR

IF = 20 mA

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

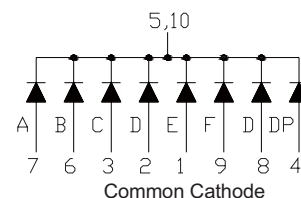
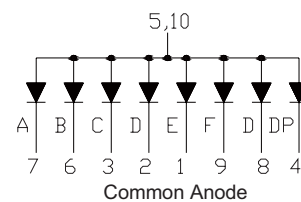
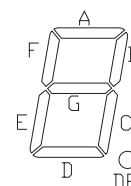
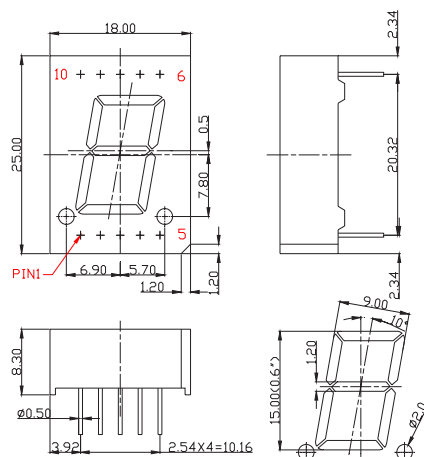
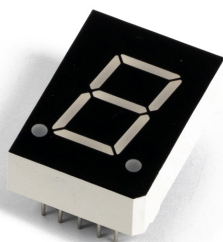
3.0	100
3.0	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP



Package Dimension / Internal Circuit



0.60" Single digits display



Inquiry

Part Number

Common Anode	Common Cathode
--------------	----------------

OPD-S6010W	OPD-S6011W
OPD-S6010LB	OPD-S6011LB
OPD-S6010UPG	OPD-S6011UPG
OPD-S6010YG	OPD-S6011YG
OPD-S6010LY	OPD-S6011LY
OPD-S6010LA	OPD-S6011LA
OPD-S6010LE	OPD-S6011LE
OPD-S6010LR	OPD-S6011LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
----------------------------	------------------------------

3.0	100
3.0	60
3.0	250
2.0	20
2.1	60
2.0	60
2.1	60
2.1	20

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

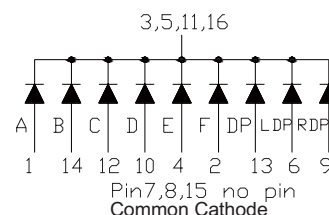
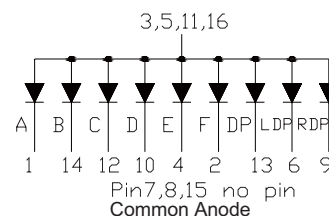
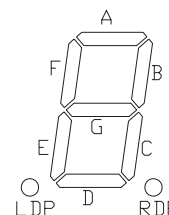
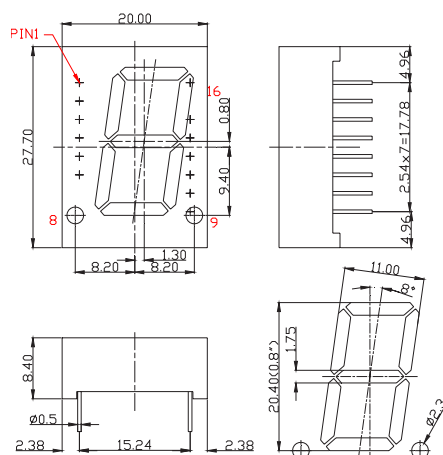
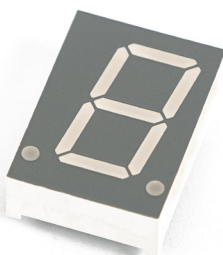
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.80" Single digits display



Inquiry

Part Number

Common Anode	Common Cathode
--------------	----------------

OPD-S8010W	OPD-S8011W
OPD-S8010LB	OPD-S8011LB
OPD-S8010UPG	OPD-S8011UPG
OPD-S8010YG	OPD-S8011YG
OPD-S8010LY	OPD-S8011LY
OPD-S8010LA	OPD-S8011LA
OPD-S8010LE	OPD-S8011LE
OPD-S8010LR	OPD-S8011LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
----------------------------	------------------------------

3.0	110
3.0	70
3.0	300
2.1	25
2.1	70
2.0	70
2.1	70
2.1	25

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

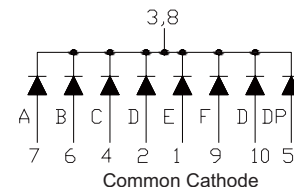
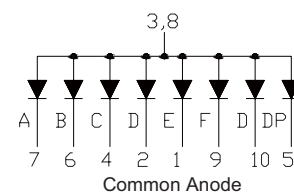
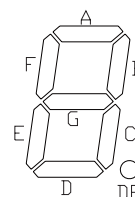
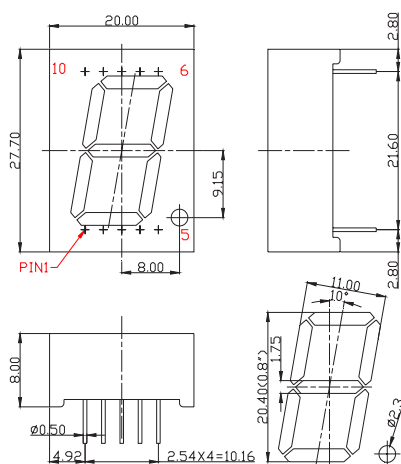
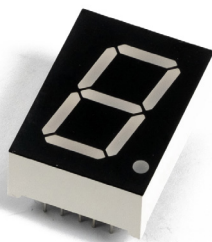
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



0.80" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S8022W OPD-S8023W

OPD-S8022LB OPD-S8023LB

OPD-S8022UPG OPD-S8023UPG

OPD-S8022YG OPD-S8023YG

OPD-S8022LY OPD-S8023LY

OPD-S8022LA OPD-S8023LA

OPD-S8022LE OPD-S8023LE

OPD-S8022LR OPD-S8023LR

IF = 20 mA

V_F(V)
Typ.

I_V(mcd)
Typ.

3.0 110

3.0 70

3.0 300

2.1 25

2.1 70

2.0 70

2.1 70

2.1 25

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

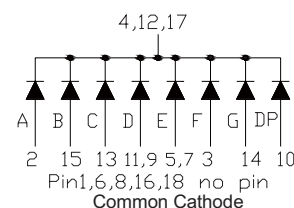
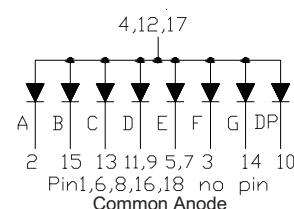
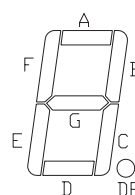
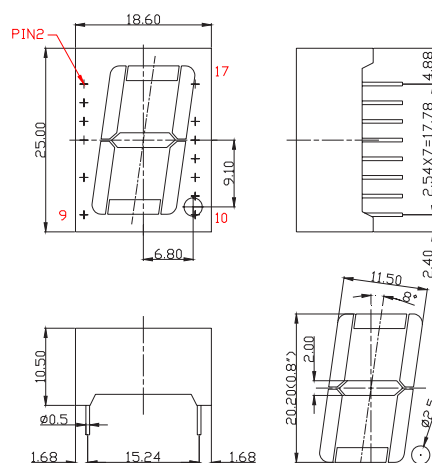
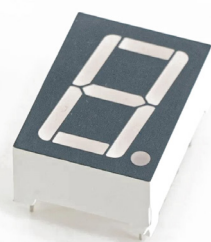
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.80" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S8030W OPD-S8031W

OPD-S8030LB OPD-S8031LB

OPD-S8030UPG OPD-S8031UPG

OPD-S8030YG OPD-S8031YG

OPD-S8030LY OPD-S8031LY

OPD-S8030LA OPD-S8031LA

OPD-S8030LE OPD-S8031LE

OPD-S8030LR OPD-S8031LR

IF = 20 mA

V_F(V)
Typ.

I_V(mcd)
Typ.

3.0 110

3.0 70

3.0 300

2.1 25

2.1 70

2.0 70

2.1 70

2.1 25

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

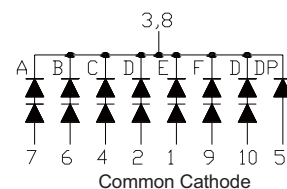
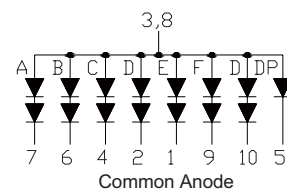
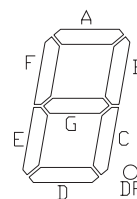
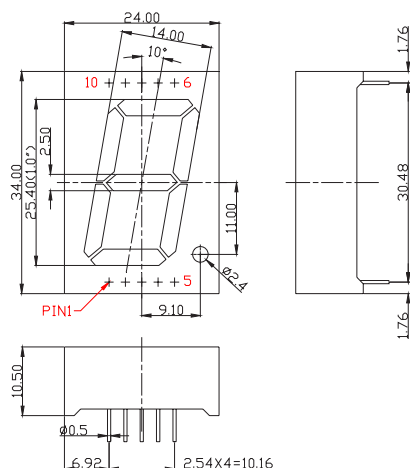
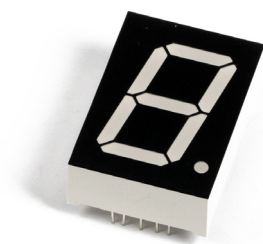
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



1.00" Single digits display



Inquiry

Part Number

Common Anode Common Cathode

OPD-S10012W	OPD-S10013W
OPD-S10012LB	OPD-S10013LB
OPD-S10012UPG	OPD-S10013UPG
OPD-S10012YG	OPD-S10013YG
OPD-S10012LY	OPD-S10013LY
OPD-S10012LA	OPD-S10013LA
OPD-S10012LE	OPD-S10013LE
OPD-S10012LR	OPD-S10013LR

IF = 20 mA

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

3.0(6.0)	160
3.0(6.0)	120
3.0(6.0)	1200
2.0(4.0)	40
2.1(4.2)	120
2.0(4.0)	120
2.1(4.2)	120
2.1(4.2)	40

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

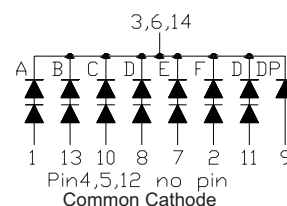
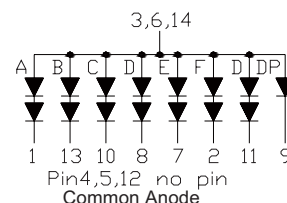
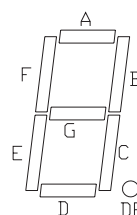
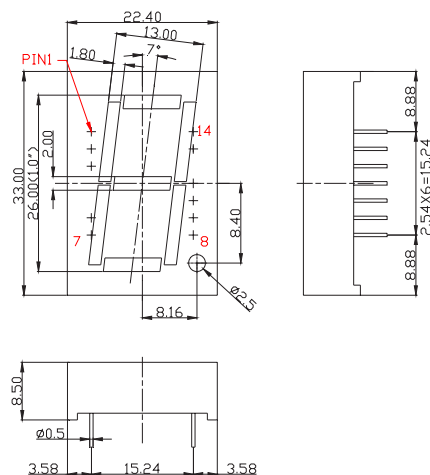
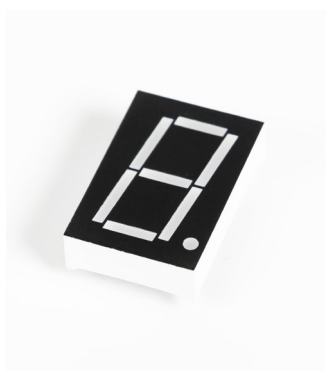
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



1.00" Single digits display



Inquiry

Part Number

Common Anode Common Cathode

OPD-S10020W	OPD-S10021W
OPD-S10020LB	OPD-S10021LB
OPD-S10020UPG	OPD-S10021UPG
OPD-S10020YG	OPD-S10021YG
OPD-S10020LY	OPD-S10021LY
OPD-S10020LA	OPD-S10021LA
OPD-S10020LE	OPD-S10021LE
OPD-S10020LR	OPD-S10021LR

IF = 20 mA

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

3.0(6.0)	160
3.0(6.0)	120
3.0(6.0)	1200
2.1(4.2)	40
2.1(4.2)	120
2.0(4.0)	120
2.1(4.2)	120
2.1(4.2)	40

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

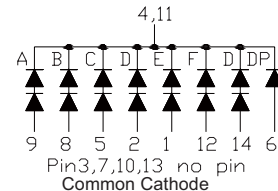
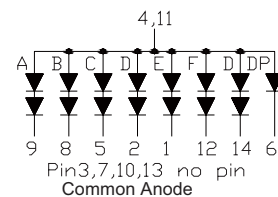
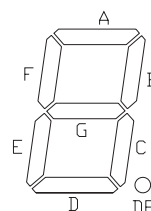
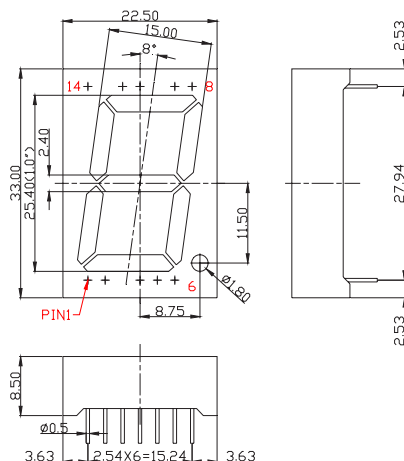
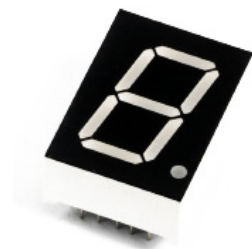
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



1.00" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S10030W	OPD-S10031W
OPD-S10030LB	OPD-S10031LB
OPD-S10030UPG	OPD-S10031UPG
OPD-S10030YG	OPD-S10031YG
OPD-S10030LY	OPD-S10031LY
OPD-S10030LA	OPD-S10031LA
OPD-S10030LE	OPD-S10031LE
OPD-S10030LR	OPD-S10031LR

IF = 20 mA

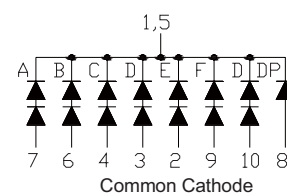
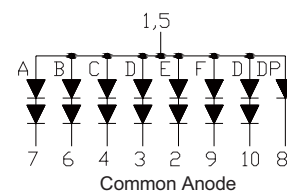
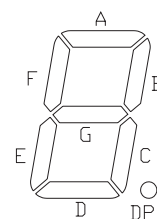
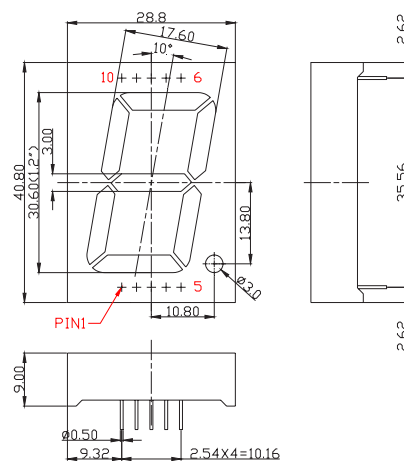
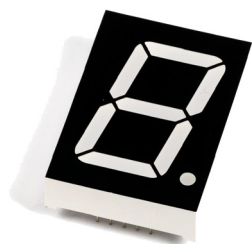
V_F(V) Typ. I_V(mcd) Typ.

3.0(6.0)	160
3.0(6.0)	120
3.0(6.0)	1200
2.1(4.2)	40
2.1(4.2)	120
2.0(4.0)	120
2.1(4.2)	120
2.1(4.2)	40

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP

Package Dimension / Internal Circuit



1.20" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S12012W	OPD-S12013W
OPD-S12012LB	OPD-S12013LB
OPD-S12012UPG	OPD-S12013UPG
OPD-S12012YG	OPD-S12013YG
OPD-S12012LY	OPD-S12013LY
OPD-S12012LA	OPD-S12013LA
OPD-S12012LE	OPD-S12013LE
OPD-S12012LR	OPD-S12013LR

IF = 20 mA

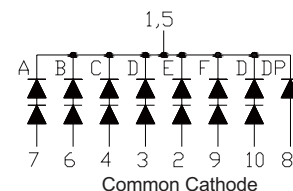
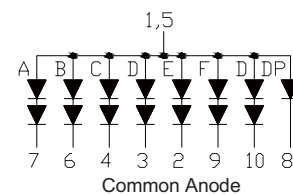
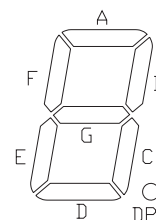
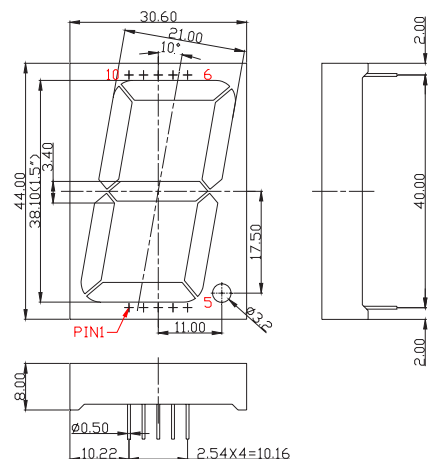
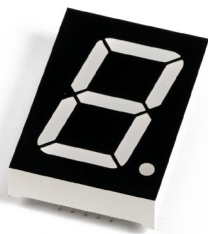
V_F(V) Typ. I_V(mcd) Typ.

3.0(6.0)	160
3.0(6.0)	120
3.0(6.0)	1200
2.1(4.2)	40
2.1(4.2)	120
2.0(4.0)	120
2.1(4.2)	120
2.1(4.2)	40

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP

Package Dimension / Internal Circuit



1.50" Single digits display



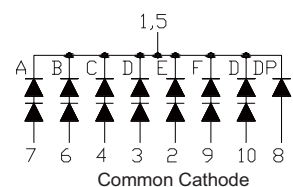
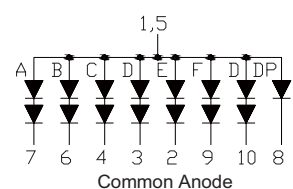
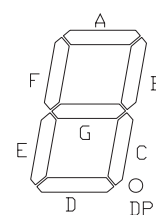
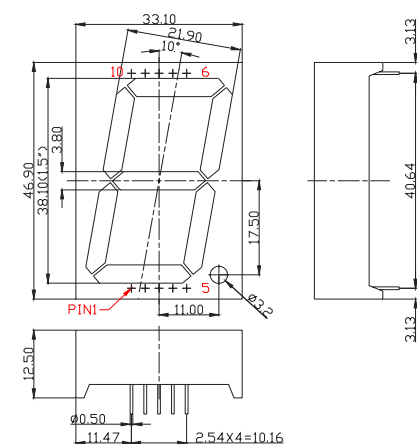
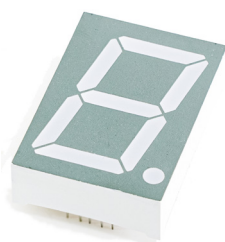
Inquiry

Part Number		IF = 20 mA	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.
OPD-S15012W	OPD-S15013W	3.0(6.0)	180
OPD-S15012LB	OPD-S15013LB	3.0(6.0)	160
OPD-S15012UPG	OPD-S15013UPG	3.0(6.0)	1900
OPD-S15012YG	OPD-S15013YG	2.1(4.2)	50
OPD-S15012LY	OPD-S15013LY	2.1(4.2)	160
OPD-S15012LA	OPD-S15013LA	2.0(4.0)	160
OPD-S15012LE	OPD-S15013LE	2.1(4.2)	160
OPD-S15012LR	OPD-S15013LR	2.1(4.2)	50

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP

Package Dimension / Internal Circuit



1.50" Single digits display



Inquiry

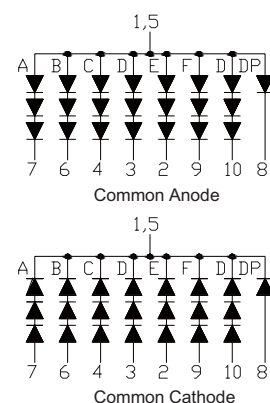
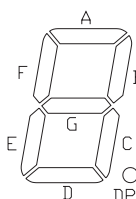
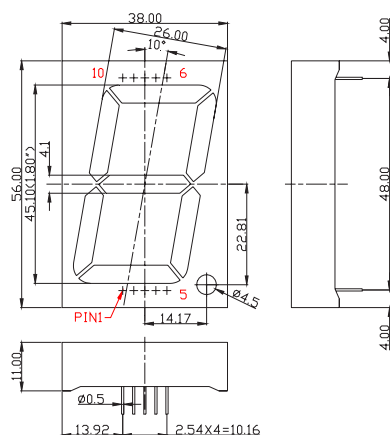
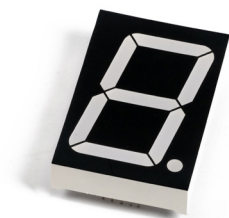
Part Number		IF = 20 mA	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.
OPD-S15030W	OPD-S15031W	3.0(6.0)	180
OPD-S15030LB	OPD-S15031LB	3.0(6.0)	160
OPD-S15030UPG	OPD-S15031UPG	3.0(6.0)	1900
OPD-S15030YG	OPD-S15031YG	2.1(4.2)	50
OPD-S15030LY	OPD-S15031LY	2.1(4.2)	160
OPD-S15030LA	OPD-S15031LA	2.0(4.0)	160
OPD-S15030LE	OPD-S15031LE	2.1(4.2)	160
OPD-S15030LR	OPD-S15031LR	2.1(4.2)	50

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP



Package Dimension / Internal Circuit



1.80" single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S18012W	OPD-S18013W
OPD-S18012LB	OPD-S18013LB
OPD-S18012UPG	OPD-S18013UPG
OPD-S18012YG	OPD-S18013YG
OPD-S18012LY	OPD-S18013LY
OPD-S18012LA	OPD-S18013LA
OPD-S18012LE	OPD-S18013LE
OPD-S18012LR	OPD-S18013LR

IF = 20 mA

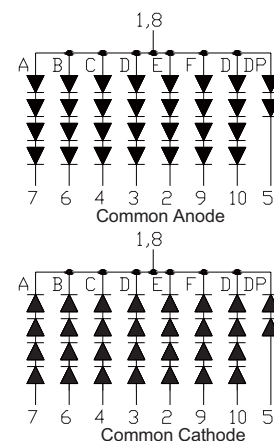
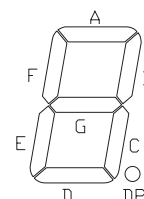
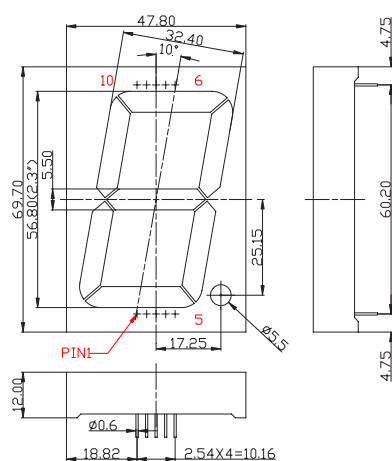
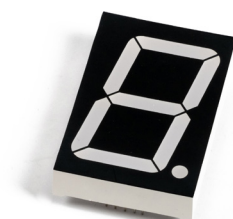
V_F(V) Typ. I_V(mcd) Typ.

9.0(3.0)	240
9.0(3.0)	200
9.0(3.0)	2800
6.3(2.1)	60
6.3(2.1)	200
6.0(2.0)	200
6.3(2.1)	200
6.3(2.1)	60

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP

Package Dimension / Internal Circuit



2.30" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S23010W	OPD-S23011W
OPD-S23010LB	OPD-S23011LB
OPD-S23010UPG	OPD-S23011UPG
OPD-S23010YG	OPD-S23011YG
OPD-S23010LY	OPD-S23011LY
OPD-S23010LA	OPD-S23011LA
OPD-S23010LE	OPD-S23011LE
OPD-S23010LR	OPD-S23011LR

IF = 20 mA

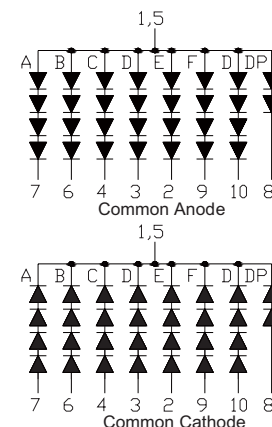
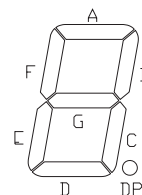
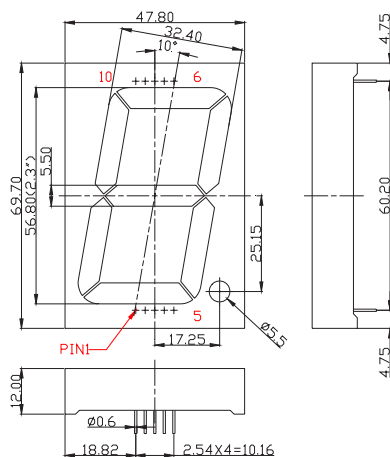
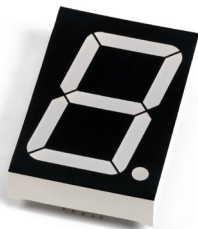
V_F(V) Typ. I_V(mcd) Typ.

6.0(12.0)	320
6.0(12.0)	260
6.0(12.0)	3800
4.2(8.4)	80
4.2(8.4)	260
4.2(8.4)	260
4.2(8.4)	260
4.2(8.4)	80

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP

Package Dimension / Internal Circuit



2.30" Single digits display



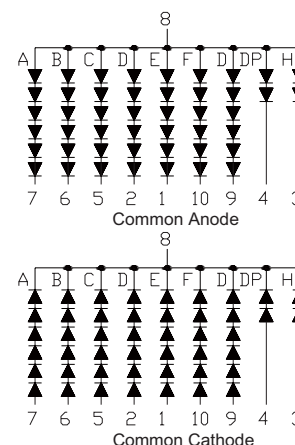
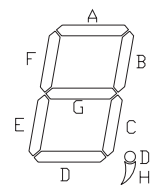
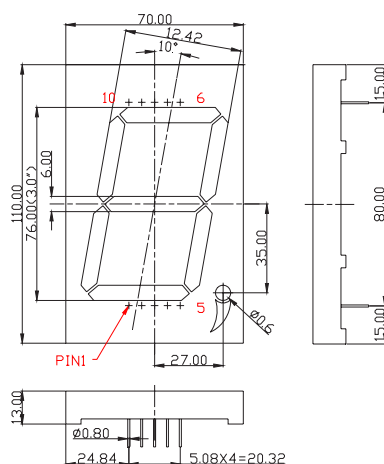
Inquiry

Part Number		IF = 20 mA	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.
OPD-S23012W	OPD-S23013W	6.0(12.0)	320
OPD-S23012LB	OPD-S23013LB	6.0(12.0)	260
OPD-S23012UPG	OPD-S23013UPG	6.0(12.0)	3800
OPD-S23012YG	OPD-S23013YG	4.2(8.4)	80
OPD-S23012LY	OPD-S23013LY	4.2(8.4)	260
OPD-S23012LA	OPD-S23013LA	4.0(8.0)	260
OPD-S23012LE	OPD-S23013LE	4.2(8.4)	260
OPD-S23012LR	OPD-S23013LR	4.2(8.4)	80

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP

Package Dimension / Internal Circuit



3.00" Single digits display



Inquiry

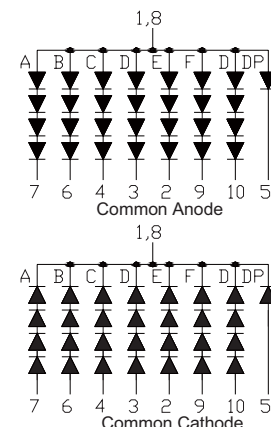
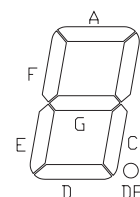
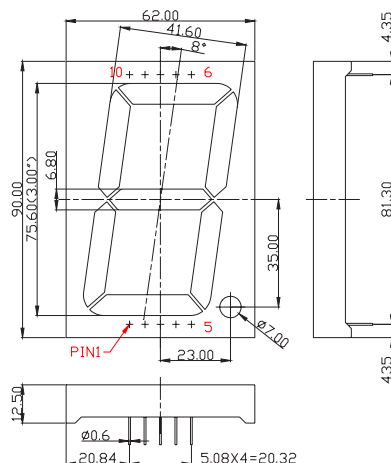
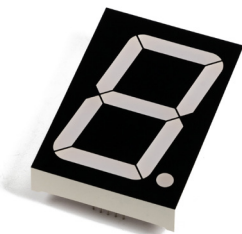
Part Number		IF = 20 mA	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.
OPD-S30012W	OPD-S30013W	6.0(18.0)	480
OPD-S30012LB	OPD-S30013LB	6.0(18.0)	360
OPD-S30012UPG	OPD-S30013UPG	6.0(18.0)	5700
OPD-S30012YG	OPD-S30013YG	4.2(12.6)	110
OPD-S30012LY	OPD-S30013LY	4.2(12.6)	360
OPD-S30012LA	OPD-S30013LA	4.0(12.6)	360
OPD-S30012LE	OPD-S30013LE	4.2(12.6)	360
OPD-S30012LR	OPD-S30013LR	4.2(12.6)	110

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP



Package Dimension / Internal Circuit



3.00" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S30022W	OPD-S30023W
OPD-S30022LB	OPD-S30023LB
OPD-S30022UPG	OPD-S30023UPG
OPD-S30022YG	OPD-S30023YG
OPD-S30022LY	OPD-S30023LY
OPD-S30022LA	OPD-S30023LA
OPD-S30022LE	OPD-S30023LE
OPD-S30022LR	OPD-S30023LR

IF = 20 mA

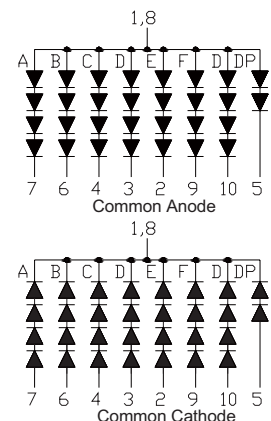
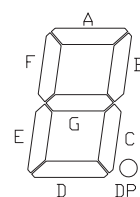
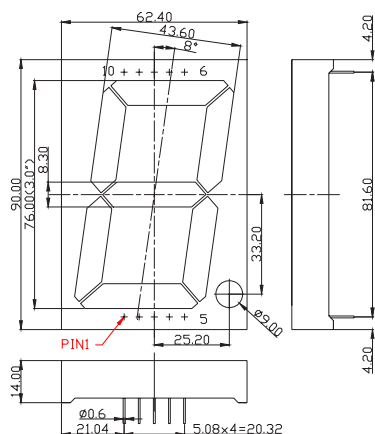
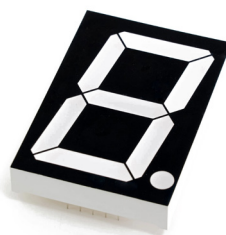
V_F(V) Typ. I_V(mcd) Typ.

3.0(18.0)	320
3.0(18.0)	260
3.0(18.0)	3800
2.1(12.6)	80
2.1(12.6)	260
2.0(12.0)	260
2.1(12.6)	260
2.1(12.6)	80

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP

Package Dimension / Internal Circuit



3.00" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S30040W	OPD-S30041W
OPD-S30040LB	OPD-S30041LB
OPD-S30040UPG	OPD-S30041UPG
OPD-S30040YG	OPD-S30041YG
OPD-S30040LY	OPD-S30041LY
OPD-S30040LA	OPD-S30041LA
OPD-S30040LE	OPD-S30041LE
OPD-S30040LR	OPD-S30041LR

IF = 20 mA

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

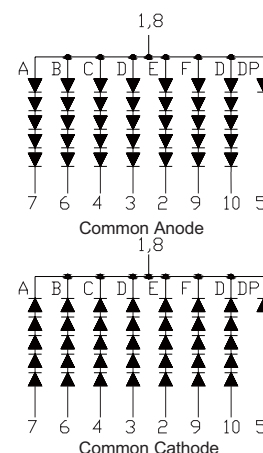
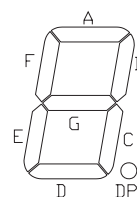
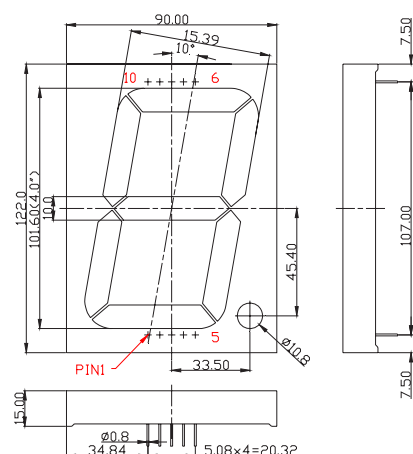
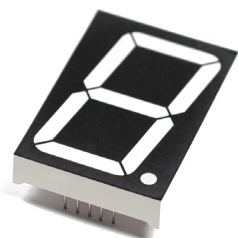
6.0(12.0)	320
6.0(12.0)	260
6.0(12.0)	3800
4.2(8.4)	80
4.2(8.4)	260
4.0(8.0)	260
4.2(8.4)	260
4.2(8.4)	80

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP



Package Dimension / Internal Circuit



4.00" Single digits display



Inquiry

Part Number

Common Anode	Common Cathode
--------------	----------------

OPD-S40010W	OPD-S40011W
OPD-S40010LB	OPD-S40011LB
OPD-S40010UPG	OPD-S40011UPG
OPD-S40010YG	OPD-S40011YG
OPD-S40010LY	OPD-S40011LY
OPD-S40010LA	OPD-S40011LA
OPD-S40010LE	OPD-S40011LE
OPD-S40010LR	OPD-S40011LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
----------------------------	------------------------------

3.0(15.0)	400
3.0(15.0)	300
3.0(15.0)	4500
2.1(10.5)	100
2.1(10.5)	300
2.0(10.0)	300
2.1(10.5)	300
2.1(10.5)	100

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

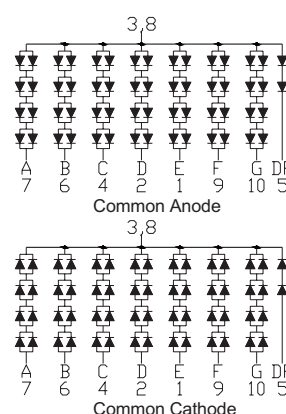
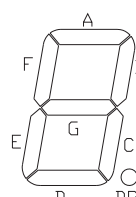
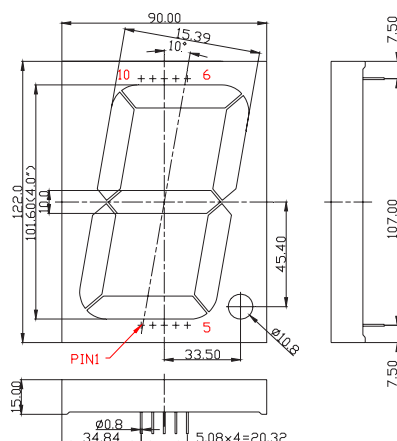
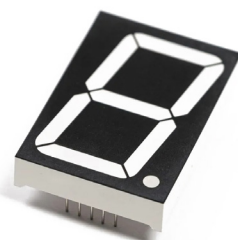
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



4.00" Single digits display



Inquiry

Part Number

Common Anode	Common Cathode
--------------	----------------

OPD-S40014W	OPD-S40015W
OPD-S40014LB	OPD-S40015LB
OPD-S40014UPG	OPD-S40015UPG
OPD-S40014YG	OPD-S40015YG
OPD-S40014LY	OPD-S40015LY
OPD-S40014LA	OPD-S40015LA
OPD-S40014LE	OPD-S40015LE
OPD-S40014LR	OPD-S40015LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
----------------------------	------------------------------

6.0(12.0)	500
6.0(12.0)	500
6.0(12.0)	5000
4.2(8.4)	150
4.2(8.4)	500
4.0(8.0)	500
4.2(8.4)	500
4.2(8.4)	150

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

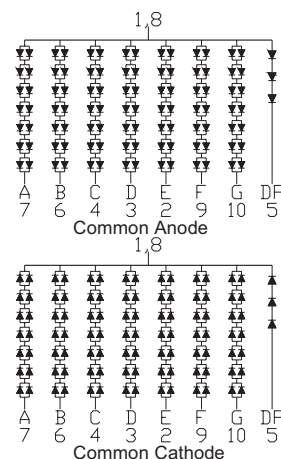
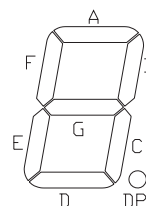
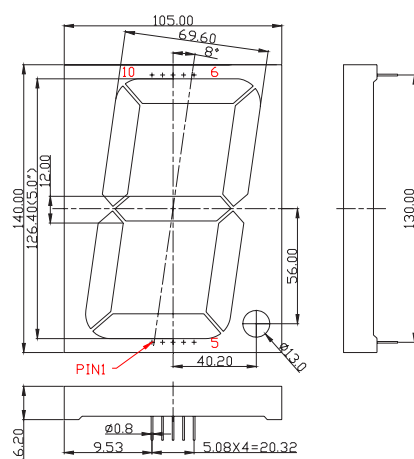
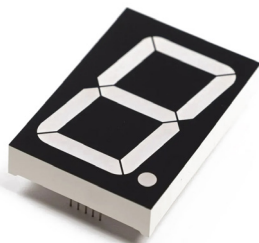
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



5.00" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S50010W	OPD-S50011W
OPD-S50010LB	OPD-S50011LB
OPD-S50010UPG	OPD-S50011UPG
OPD-S50010YG	OPD-S50011YG
OPD-S50010LY	OPD-S50011LY
OPD-S50010LA	OPD-S50011LA
OPD-S50010LE	OPD-S50011LE
OPD-S50010LR	OPD-S50011LR

IF = 20 mA

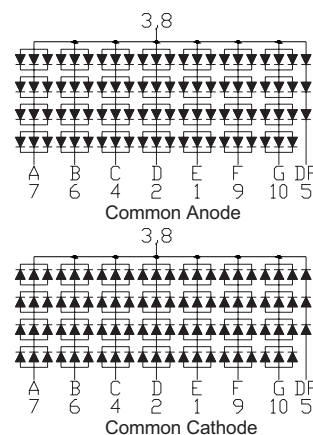
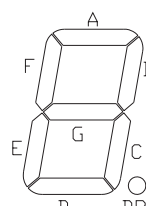
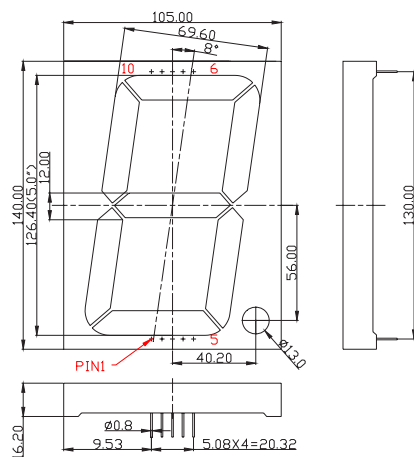
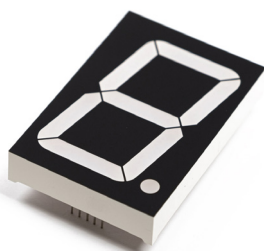
V_F(V) Typ. I_V(mcd) Typ.

9.0(21.0)	800
9.0(21.0)	700
9.0(21.0)	8000
6.3(14.0)	280
6.3(14.0)	700
6.0(14.0)	700
6.3(14.0)	700
6.3(14.0)	280

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP

Package Dimension / Internal Circuit



5.00" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-S50012W	OPD-S50013W
OPD-S50012LB	OPD-S50013LB
OPD-S50012UPG	OPD-S50013UPG
OPD-S50012YG	OPD-S50013YG
OPD-S50012LY	OPD-S50013LY
OPD-S50012LA	OPD-S50013LA
OPD-S50012LE	OPD-S50013LE
OPD-S50012LR	OPD-S50013LR

IF = 20 mA

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

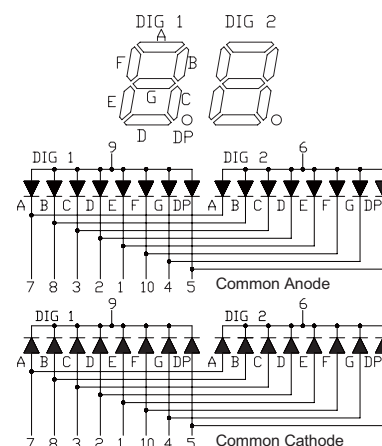
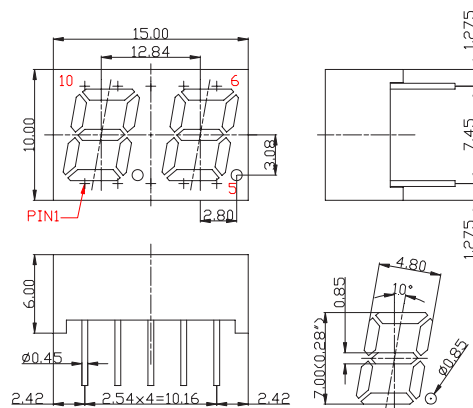
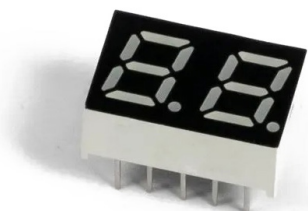
9.0(12.0)	800
9.0(12.0)	700
9.0(12.0)	8000
6.3(8.4)	280
6.3(8.4)	700
6.0(8.0)	700
6.3(8.4)	700
6.3(8.4)	280

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP



Package Dimension / Internal Circuit



0.28" dual digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPD-D2830W2	OPD-D2831W2
OPD-D2830LB	OPD-D2831LB
OPD-D2830UPG	OPD-D2831UPG
OPD-D2830YG	OPD-D2831YG
OPD-D2830LY	OPD-D2831LY
OPD-D2830LA	OPD-D2831LA
OPD-D2830LE	OPD-D2831LE
OPD-D2830LR	OPD-D2831LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	80
3.0	40
3.0	160
2.1	15
2.1	40
2.0	40
2.1	40
2.1	15

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

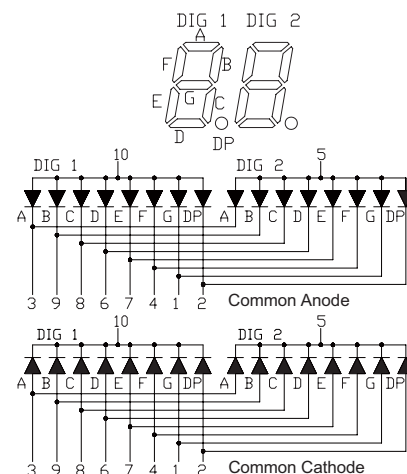
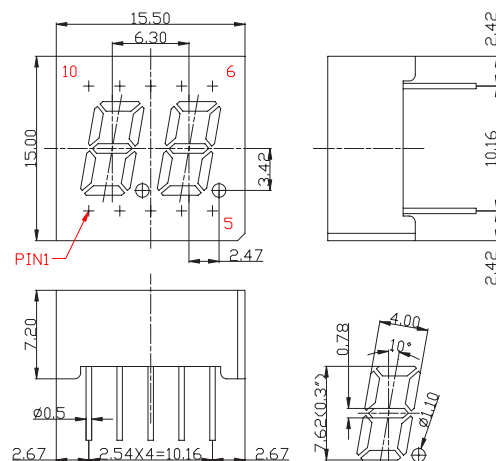
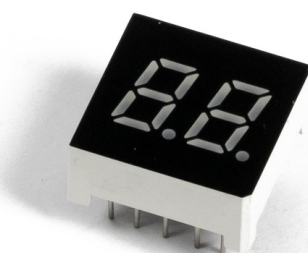
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.30" dual digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPD-D3010W2	OPD-D3011W2
OPD-D3010LB	OPD-D3011LB
OPD-D3010UPG	OPD-D3011UPG
OPD-D3010YG	OPD-D3011YG
OPD-D3010LY	OPD-D3011LY
OPD-D3010LA	OPD-D3011LA
OPD-D3010LE	OPD-D3011LE
OPD-D3010LR	OPD-D3011LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	80
3.0	40
3.0	160
2.1	15
2.1	40
2.0	40
2.1	40
2.1	15

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

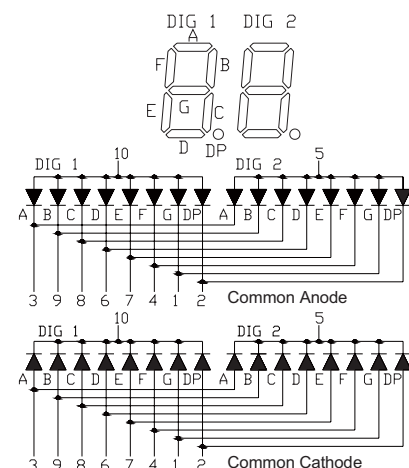
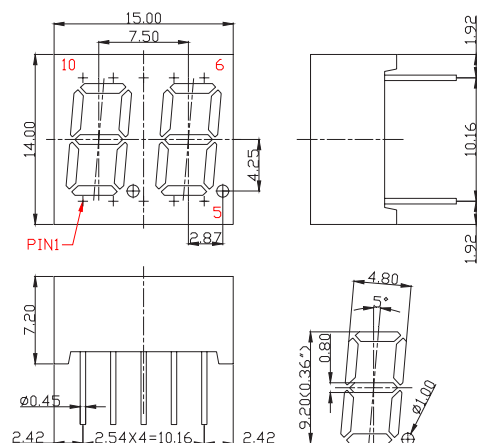
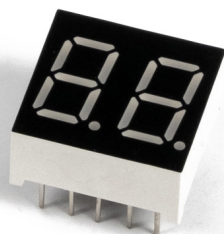
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



0.36" dual digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPD-D3610W	OPD-D3611W
OPD-D3610LB	OPD-D3611LB
OPD-D3610UPG	OPD-D3611UPG
OPD-D3610YG	OPD-D3611YG
OPD-D3610LY	OPD-D3611LY
OPD-D3610LA	OPD-D3611LA
OPD-D3610LE	OPD-D3611LE
OPD-D3610LR	OPD-D3611LR

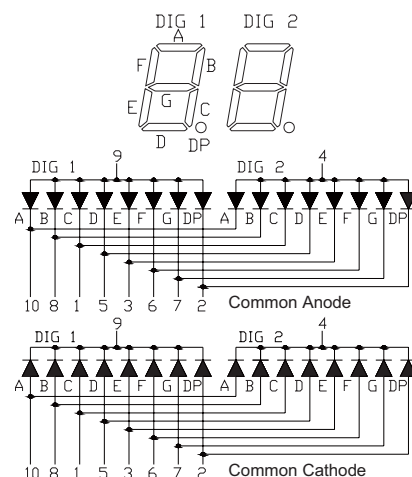
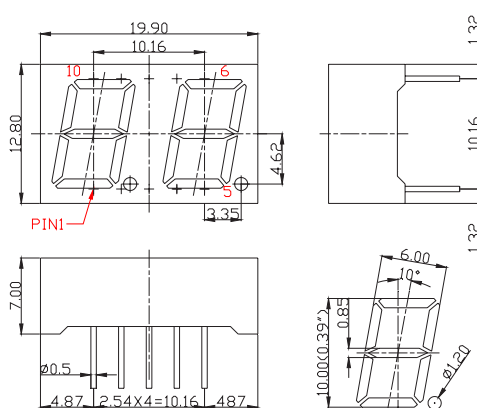
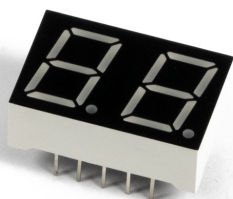
IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	80
3.0	40
3.0	160
2.1	15
2.1	40
2.0	40
2.1	40
2.1	15

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP

Package Dimension / Internal Circuit



0.39" dual digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPD-D3910W2	OPD-D3911W2
OPD-D3910LB	OPD-D3911LB
OPD-D3910UPG	OPD-D3911UPG
OPD-D3910YG	OPD-D3911YG
OPD-D3910LY	OPD-D3911LY
OPD-D3910LA	OPD-D3911LA
OPD-D3910LE	OPD-D3911LE
OPD-D3910LR	OPD-D3911LR

IF = 20 mA

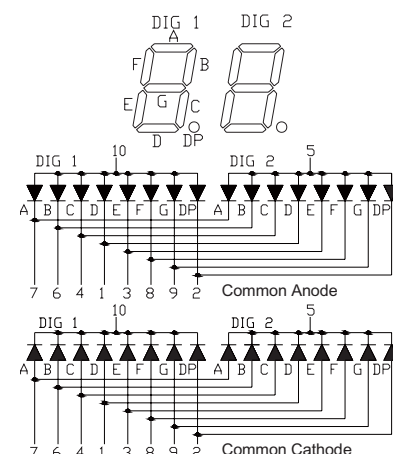
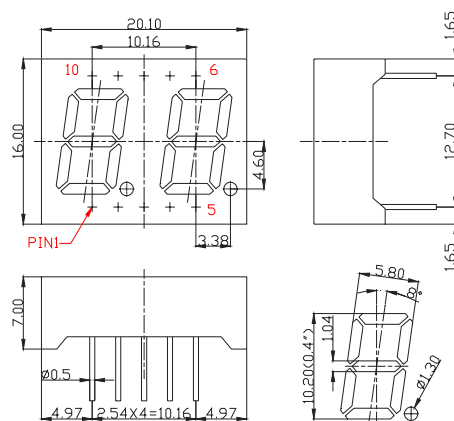
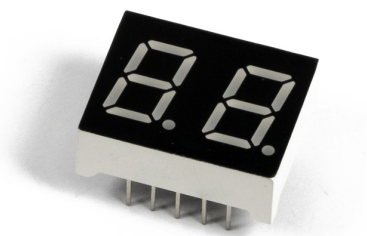
V _F (V) Typ.	I _V (mcd) Typ.
3.0	80
3.0	40
3.0	160
2.1	15
2.1	40
2.0	40
2.1	40
2.1	15

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP



Package Dimension / Internal Circuit



0.40" dual digits display



Inquiry

Part Number

Common Anode	Common Cathode
--------------	----------------

OPD-D4010W	OPD-D4011W
OPD-D4010LB	OPD-D4011LB
OPD-D4010UPG	OPD-D4011UPG
OPD-D4010YG	OPD-D4011YG
OPD-D4010LY	OPD-D4011LY
OPD-D4010LA	OPD-D4011LA
OPD-D4010LE	OPD-D4011LE
OPD-D4010LR	OPD-D4011LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
----------------------------	------------------------------

3.0	80
3.0	40
3.0	160
2.1	15
2.1	40
2.0	40
2.1	40
2.1	15

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

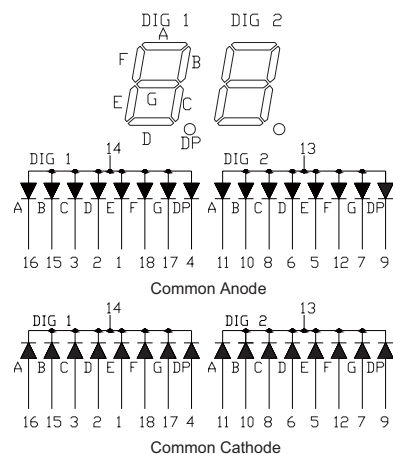
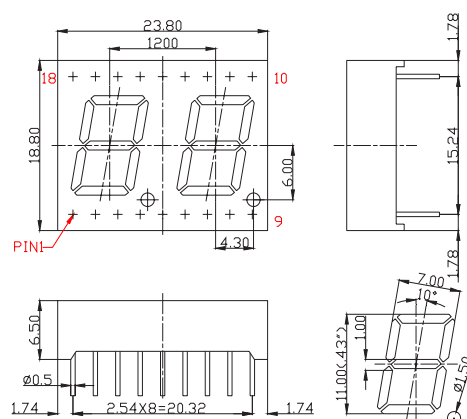
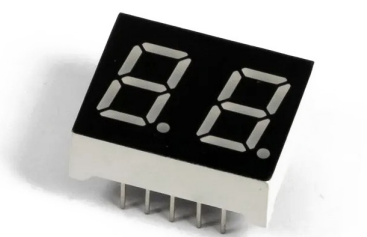
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.43" dual digits display



Inquiry

Part Number

Common Anode	Common Cathode
--------------	----------------

OPD-D4314W	OPD-D4315W
OPD-D4314LB	OPD-D4315LB
OPD-D4314UPG	OPD-D4315UPG
OPD-D4314YG	OPD-D4315YG
OPD-D4314LY	OPD-D4315LY
OPD-D4314LA	OPD-D4315LA
OPD-D4314LE	OPD-D4315LE
OPD-D4314LR	OPD-D4315LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
----------------------------	------------------------------

3.0	80
3.0	40
3.0	160
2.1	15
2.1	40
2.0	40
2.1	40
2.1	15

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

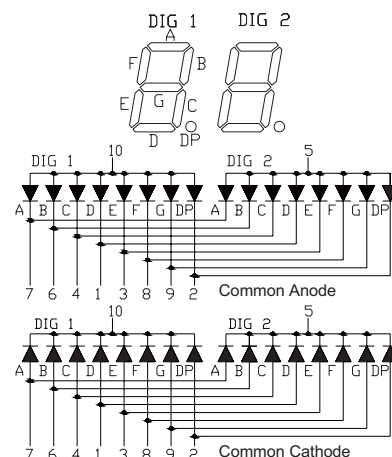
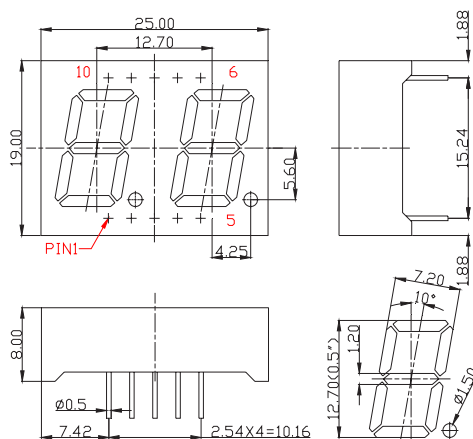
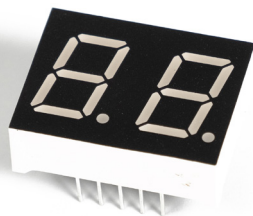
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



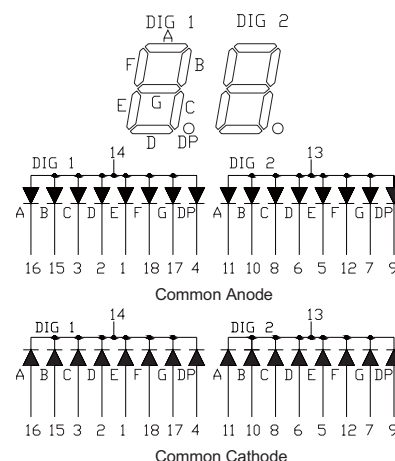
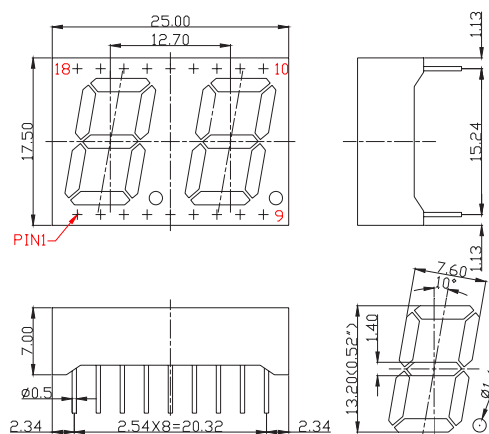
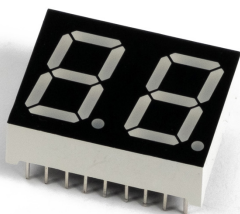
0.50" dual digits display



Inquiry

Part Number		IF = 20 mA		Wavelength(nm) λ_d @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V_F (V) Typ.	I_V (mcd) Typ.	
OPD-D5010W	OPD-D5011W	3.0	100	- InGaN
OPD-D5010LB	OPD-D5011LB	3.0	60	470 InGaN
OPD-D5010UPG	OPD-D5011UPG	3.0	250	525 InGaN
OPD-D5010YG	OPD-D5011YG	2.1	20	570 AlGaNInP
OPD-D5010LY	OPD-D5011LY	2.1	60	590 AlGaNInP
OPD-D5010LA	OPD-D5011LA	2.0	60	610 AlGaNInP
OPD-D5010LE	OPD-D5011LE	2.1	60	625 AlGaNInP
OPD-D5010LR	OPD-D5011LR	2.1	20	640 AlGaNInP

Package Dimension / Internal Circuit



0.52" dual digits display

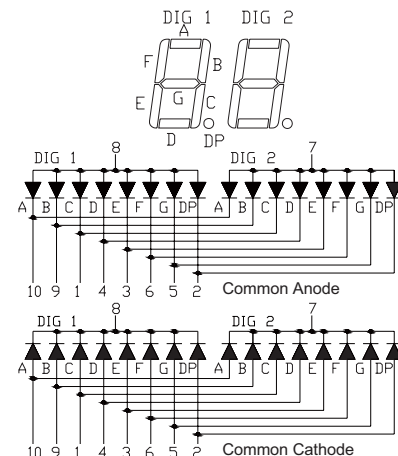
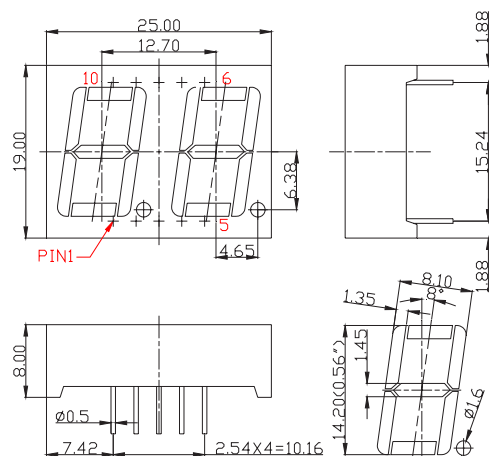


Inquiry

Part Number		IF = 20 mA		Wavelength(nm) λ_d @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V_F (V) Typ.	I_V (mcd) Typ.	
OPD-D5210W	OPD-D5211W	3.0	100	- InGaN
OPD-D5210LB	OPD-D5211LB	3.0	60	470 InGaN
OPD-D5210UPG	OPD-D5211UPG	3.0	250	525 InGaN
OPD-D5210YG	OPD-D5211YG	2.1	20	570 AlGaNInP
OPD-D5210LY	OPD-D5211LY	2.1	60	590 AlGaNInP
OPD-D5210LA	OPD-D5211LA	2.0	60	610 AlGaNInP
OPD-D5210LE	OPD-D5211LE	2.1	60	625 AlGaNInP
OPD-D5210LR	OPD-D5211LR	2.1	20	640 AlGaNInP



Package Dimension / Internal Circuit



0.56" dual digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPD-D5610W	OPD-D5611W
OPD-D5610LB	OPD-D5611LB
OPD-D5610UPG	OPD-D5611UPG
OPD-D5610YG	OPD-D5611YG
OPD-D5610LY	OPD-D5611LY
OPD-D5610LA	OPD-D5611LA
OPD-D5610LE	OPD-D5611LE
OPD-D5610LR	OPD-D5611LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	100
3.0	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

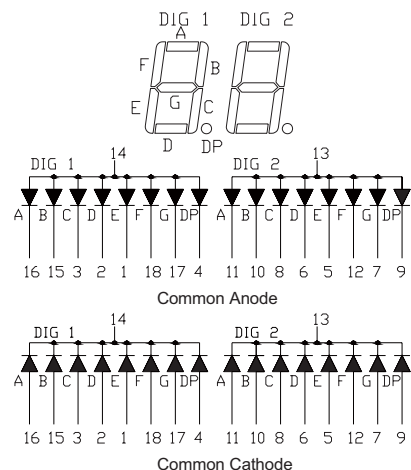
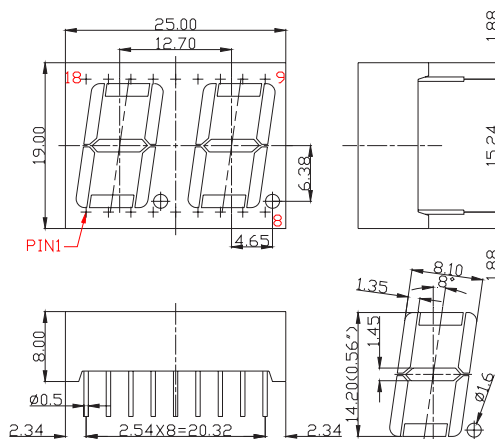
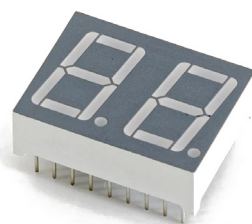
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.56" dual digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPD-D5612W	OPD-D5613W
OPD-D5612LB	OPD-D5613LB
OPD-D5612UPG	OPD-D5613UPG
OPD-D5612YG	OPD-D5613YG
OPD-D5612LY	OPD-D5613LY
OPD-D5612LA	OPD-D5613LA
OPD-D5612LE	OPD-D5613LE
OPD-D5612LR	OPD-D5613LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	100
3.0	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

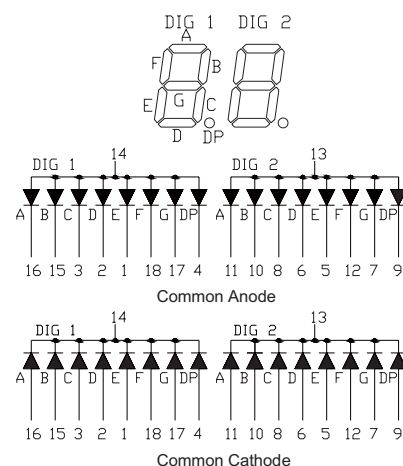
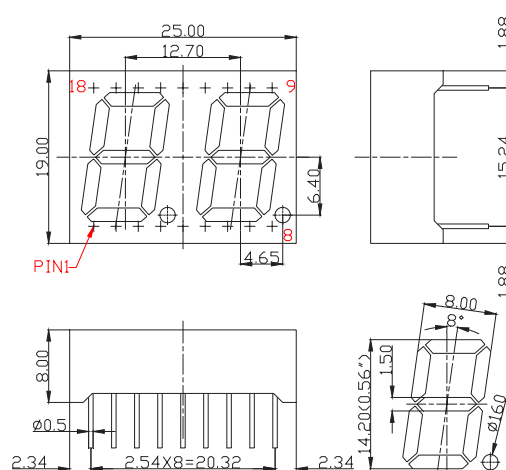
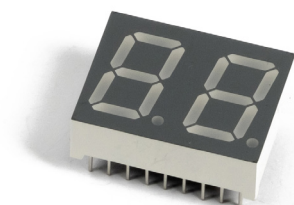
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



0.56" dual digits display



Inquiry

Part Number		IF = 20 mA	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.
OPD-D5630W	OPD-D5631W	3.0	100
OPD-D5630LB	OPD-D5631LB	3.0	60
OPD-D5630UPG	OPD-D5631UPG	3.0	250
OPD-D5630YG	OPD-D5631YG	2.1	20
OPD-D5630LY	OPD-D5631LY	2.1	60
OPD-D5630LA	OPD-D5631LA	2.0	60
OPD-D5630LE	OPD-D5631LE	2.1	60
OPD-D5630LR	OPD-D5631LR	2.1	20

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

- InGaN

470 InGaN

525 InGaN

570 AlGaInP

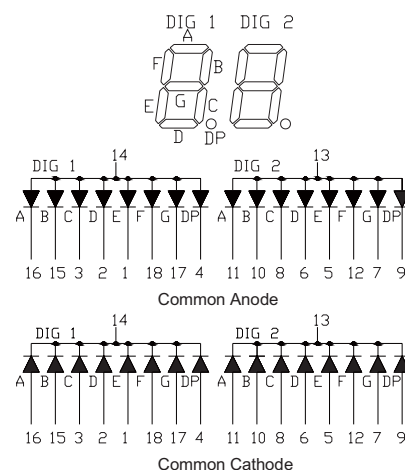
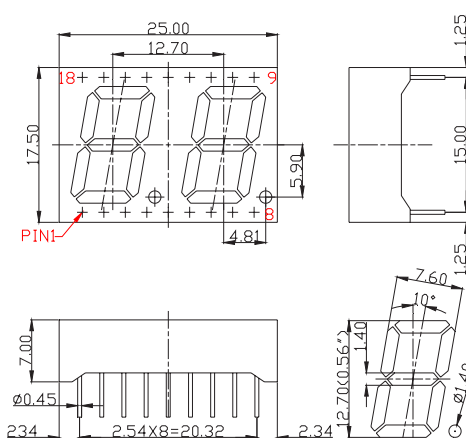
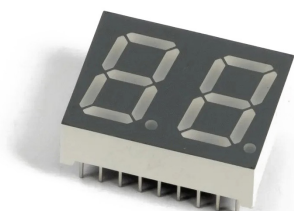
590 AlGaInP

610 AlGaInP

625 AlGaInP

640 AlGaInP

Package Dimension / Internal Circuit



0.56" dual digits display



Inquiry

Part Number		IF = 20 mA	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.
OPD-D5660W	OPD-D5661W	3.0	110
OPD-D5660LB	OPD-D5661LB	3.0	60
OPD-D5660UPG	OPD-D5661UPG	3.0	250
OPD-D5660YG	OPD-D5661YG	2.1	20
OPD-D5660LY	OPD-D5661LY	2.1	60
OPD-D5660LA	OPD-D5661LA	2.0	60
OPD-D5660LE	OPD-D5661LE	2.1	60
OPD-D5660LR	OPD-D5661LR	2.1	20

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

- InGaN

470 InGaN

525 InGaN

570 AlGaInP

590 AlGaInP

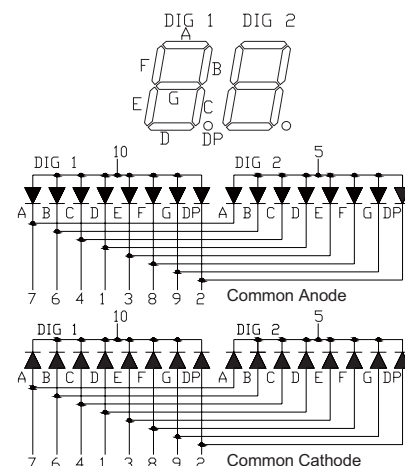
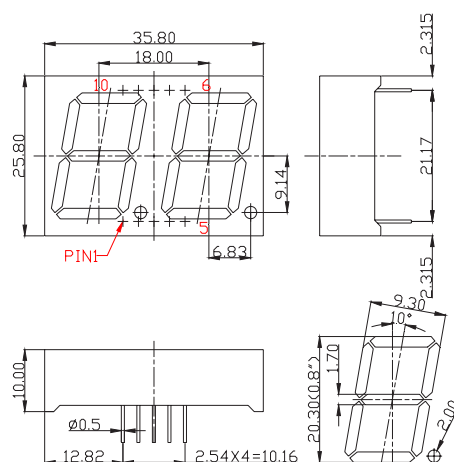
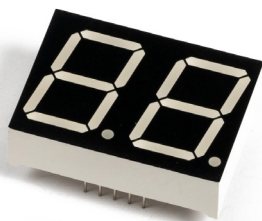
610 AlGaInP

625 AlGaInP

640 AlGaInP



Package Dimension / Internal Circuit



0.80" dual digits display



Inquiry

Part Number

Common Anode Common Cathode

OPD-D8010W OPD-D8011W

OPD-D8010LB OPD-D8011LB

OPD-D8010UPG OPD-D8011UPG

OPD-D8010YG OPD-D8011YG

OPD-D8010LY OPD-D8011LY

OPD-D8010LA OPD-D8011LA

OPD-D8010LE OPD-D8011LE

OPD-D8010LR OPD-D8011LR

IF = 20 mA

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

3.0 110

3.0 70

3.0 300

2.1 25

2.1 70

2.0 70

2.1 70

2.1 25

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

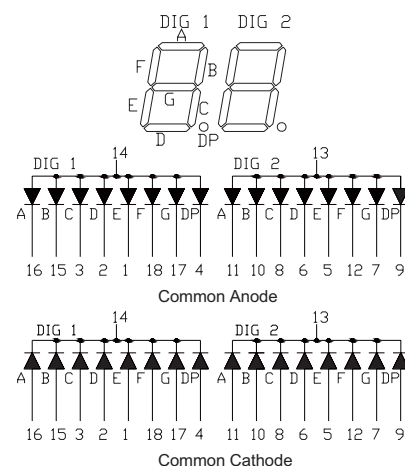
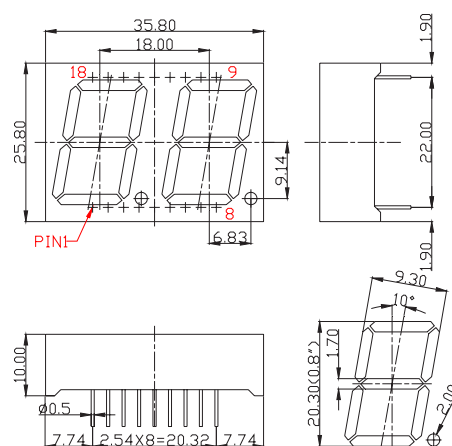
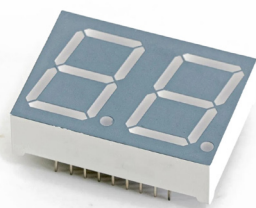
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.80" dual digits display



Inquiry

Part Number

Common Anode Common Cathode

OPD-D8018W OPD-D8019W

OPD-D8018LB OPD-D8019LB

OPD-D8018UPG OPD-D8019UPG

OPD-D8018YG OPD-D8019YG

OPD-D8018LY OPD-D8019LY

OPD-D8018LA OPD-D8019LA

OPD-D8018LE OPD-D8019LE

OPD-D8018LR OPD-D8019LR

IF = 20 mA

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

3.0 110

3.0 70

3.0 300

2.1 25

2.1 70

2.0 70

2.1 70

2.1 25

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

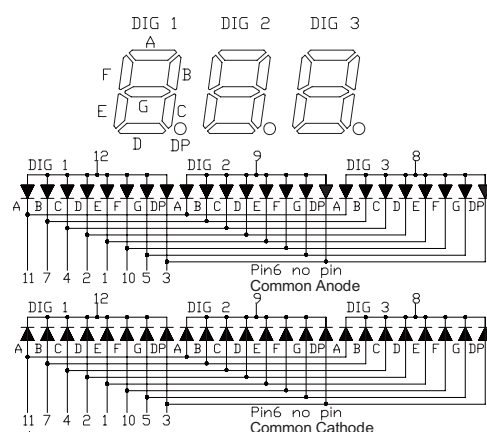
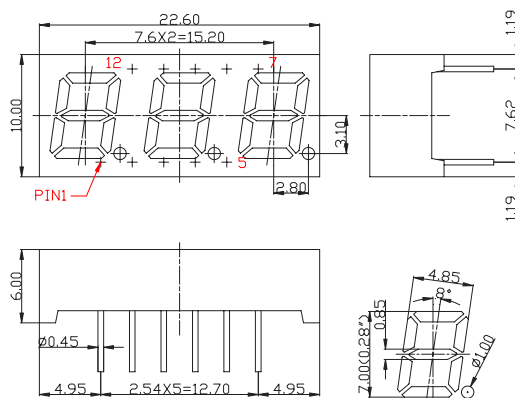
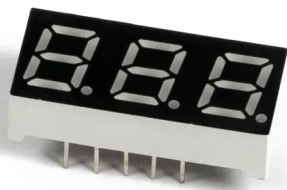
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



0.28" triple digits display

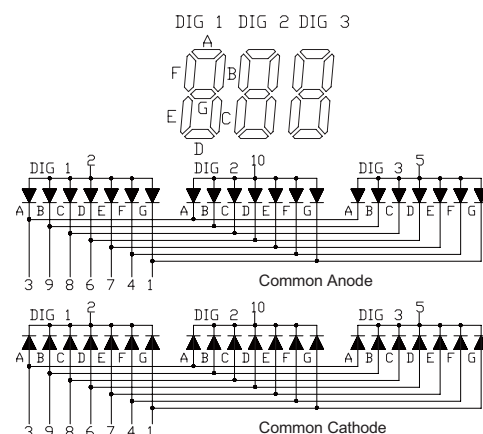
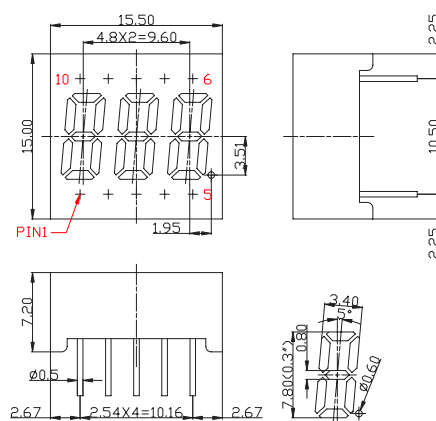
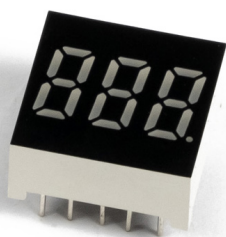


nquiry



Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.	
OPD-T2820W2	OPD-T2821W2	3.0	80	- InGaN
OPD-T2820LB	OPD-T2821LB	3.0	40	470 InGaN
OPD-T2820UPG	OPD-T2821UPG	3.0	160	525 InGaN
OPD-T2820YG	OPD-T2821YG	2.1	10	570 AlGaInP
OPD-T2820LY	OPD-T2821LY	2.1	40	590 AlGaInP
OPD-T2820LA	OPD-T2821LA	2.0	40	610 AlGaInP
OPD-T2820LE	OPD-T2821LE	2.1	40	625 AlGaInP
OPD-T2820LR	OPD-T2821LR	2.1	10	640 AlGaInP

Package Dimension / Internal Circuit



0.30" triple digits display



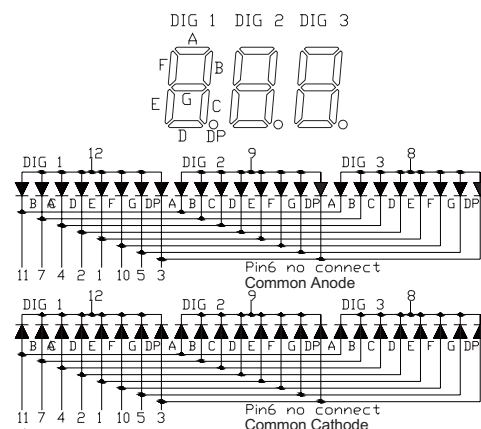
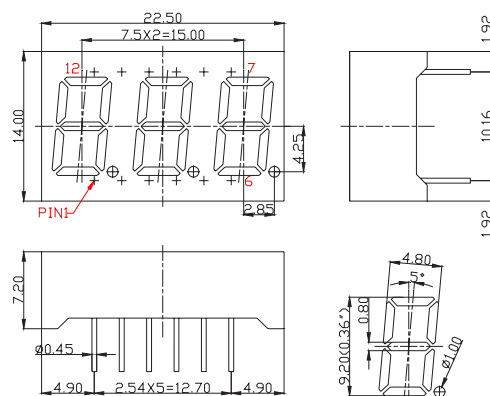
Inquiry



Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.	
OPD-T3010W3	OPD-T3011W3	3.0	80	- InGaN
OPD-T3010LB	OPD-T3011LB	3.0	40	470 InGaN
OPD-T3010UPG	OPD-T3011UPG	3.0	80	525 InGaN
OPD-T3010YG	OPD-T3011YG	2.1	10	570 AlGaInP
OPD-T3010LY	OPD-T3011LY	2.1	40	590 AlGaInP
OPD-T3010LA	OPD-T3011LA	2.0	40	610 AlGaInP
OPD-T3010LE	OPD-T3011LE	2.1	40	625 AlGaInP
OPD-T3010LR	OPD-T3011LR	2.1	10	640 AlGaInP



Package Dimension / Internal Circuit



0.36" triple digits display



Inquiry

Part Number

Common Anode Common Cathode

OPD-T3610W	OPD-T3611W
OPD-T3610LB	OPD-T3611LB
OPD-T3610UPG	OPD-T3611UPG
OPD-T3610YG	OPD-T3611YG
OPD-T3610LY	OPD-T3611LY
OPD-T3610LA	OPD-T3611LA
OPD-T3610LE	OPD-T3611LE
OPD-T3610LR	OPD-T3611LR

IF = 20 mA

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

3.0	80
3.0	40
3.0	160
2.1	10
2.1	40
2.0	40
2.1	40
2.1	10

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

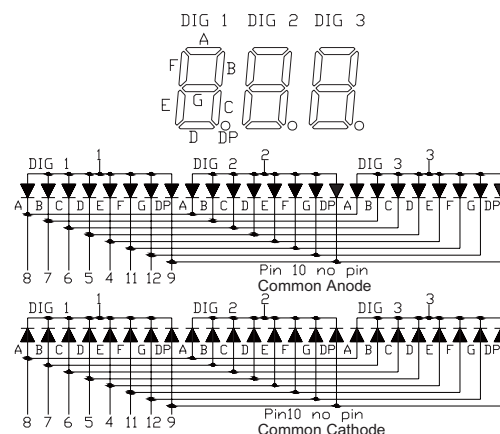
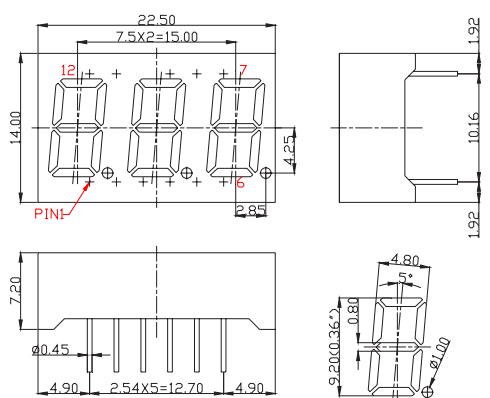
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.36" triple digits display



Inquiry

Part Number

Common Anode Common Cathode

OPD-T3612W	OPD-T3613W
OPD-T3612LB	OPD-T3613LB
OPD-T3612UPG	OPD-T3613UPG
OPD-T3612YG	OPD-T3613YG
OPD-T3612LY	OPD-T3613LY
OPD-T3612LA	OPD-T3613LA
OPD-T3612LE	OPD-T3613LE
OPD-T3612LR	OPD-T3613LR

IF = 20 mA

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

3.0	80
3.0	40
3.0	160
2.1	10
2.1	40
2.0	40
2.1	40
2.1	10

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

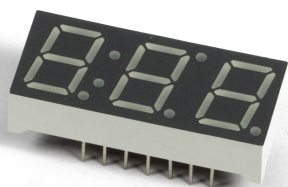
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



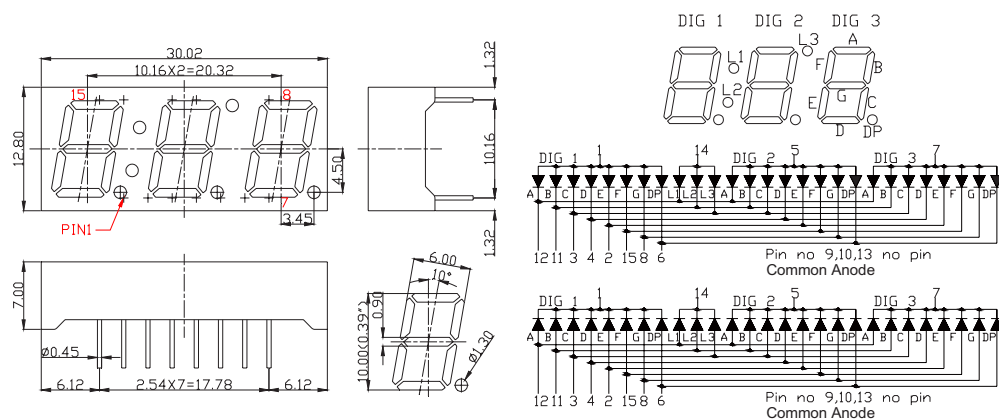
Package Dimension / Internal Circuit



0.39" triple digits display

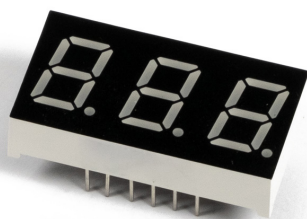


Inquiry



Part Number		IF = 20 mA		Wavelength(nm) λ_d @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V_F (V) Typ.	I_V (mcd) Typ.		
OPD-T3910W3	OPD-T3911W3	3.0	80	-	InGaN
OPD-T3910LB	OPD-T3911LB	3.0	40	470	InGaN
OPD-T3910UPG	OPD-T3911UPG	3.0	160	525	InGaN
OPD-T3910YG	OPD-T3911YG	2.1	10	570	AlGaNInP
OPD-T3910LY	OPD-T3911LY	2.1	40	590	AlGaNInP
OPD-T3910LA	OPD-T3911LA	2.0	40	610	AlGaNInP
OPD-T3910LE	OPD-T3911LE	2.1	40	625	AlGaNInP
OPD-T3910LR	OPD-T3911LR	2.1	10	640	AlGaNInP

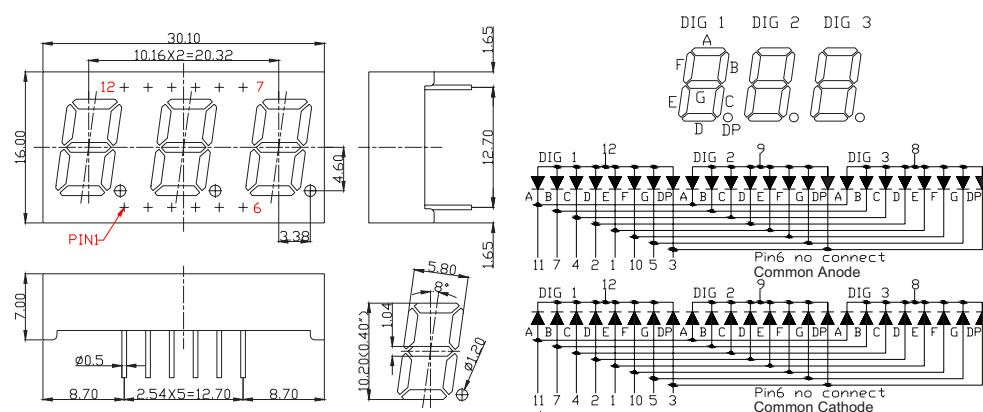
Package Dimension / Internal Circuit



0.40" triple digits display



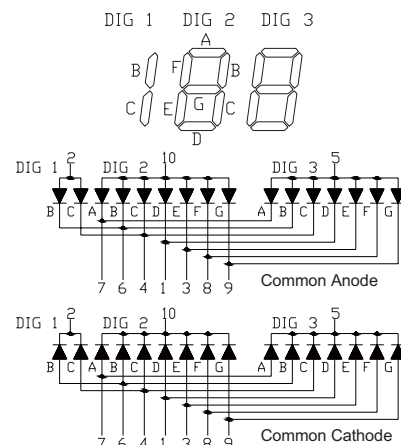
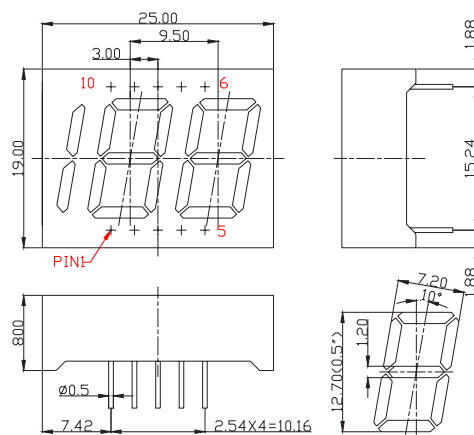
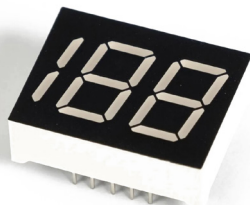
Inquiry



Part Number		IF = 20 mA		Wavelength(nm) λ_d @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V_F (V) Typ.	I_V (mcd) Typ.		
OPD-T4010W	OPD-T4011W	3.0	80	-	InGaN
OPD-T4010LB	OPD-T4011LB	3.0	40	470	InGaN
OPD-T4010UPG	OPD-T4011UPG	3.0	160	525	InGaN
OPD-T4010YG	OPD-T4011YG	2.1	10	570	AlGaNInP
OPD-T4010LY	OPD-T4011LY	2.1	40	590	AlGaNInP
OPD-T4010LA	OPD-T4011LA	2.0	40	610	AlGaNInP
OPD-T4010LE	OPD-T4011LE	2.1	40	625	AlGaNInP
OPD-T4010LR	OPD-T4011LR	2.1	10	640	AlGaNInP



Package Dimension / Internal Circuit



0.50" triple digits display



Inquiry

Part Number

Common Anode

Common Cathode

IF = 20 mA

V_F(V)
Typ.

I_V(mcd)
Typ.

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

OPD-T5010W	OPD-T5011W
OPD-T5010LB	OPD-T5011LB
OPD-T5010UPG	OPD-T5011UPG
OPD-T5010YG	OPD-T5011YG
OPD-T5010LY	OPD-T5011LY
OPD-T5010LA	OPD-T5011LA
OPD-T5010LE	OPD-T5011LE
OPD-T5010LR	OPD-T5011LR

3.0	100
3.0	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

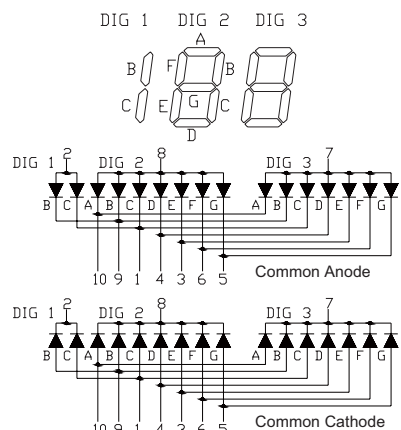
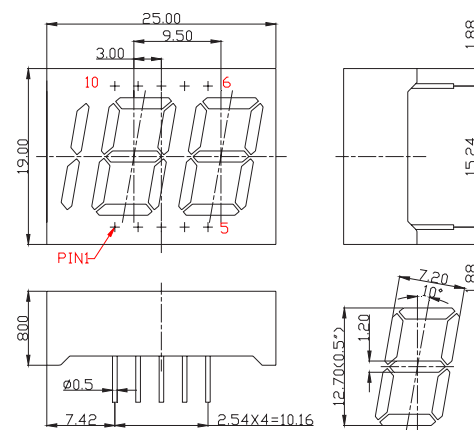
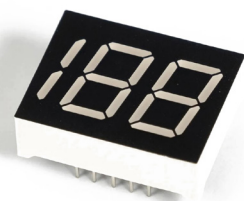
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.50" triple digits display



Inquiry

Part Number

Common Anode

Common Cathode

IF = 20 mA

V_F(V)
Typ.

I_V(mcd)
Typ.

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

OPD-T5012W	OPD-T5013W
OPD-T5012LB	OPD-T5013LB
OPD-T5012UPG	OPD-T5013UPG
OPD-T5012YG	OPD-T5013YG
OPD-T5012LY	OPD-T5013LY
OPD-T5012LA	OPD-T5013LA
OPD-T5012LE	OPD-T5013LE
OPD-T5012LR	OPD-T5013LR

3.0	100
3.0	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

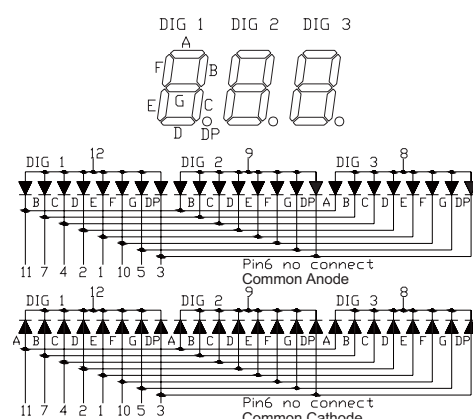
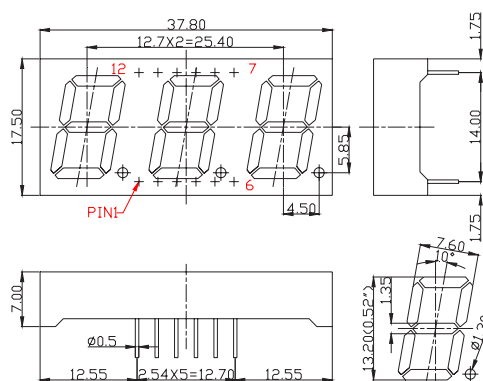
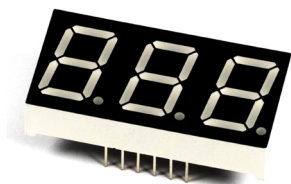
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



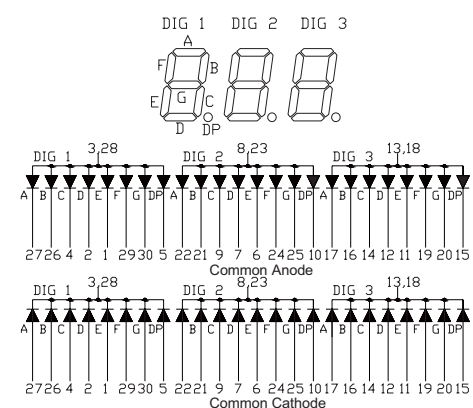
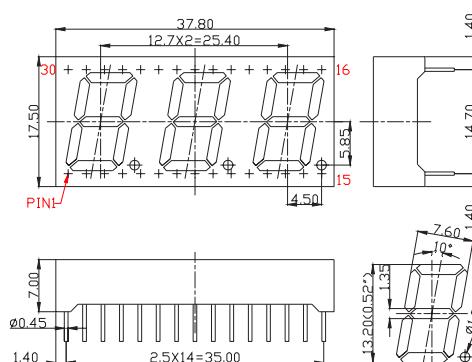
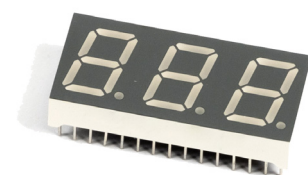
0.52" triple digits display



Inquiry

Part Number		IF = 20 mA		Wavelength(nm) λ_d @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V_F (V) Typ.	I_V (mcd) Typ.		
OPD-T5210W	OPD-T5211W	3.0	100	-	InGaN
OPD-T5210LB	OPD-T5211LB	3.0	60	470	InGaN
OPD-T5210UPG	OPD-T5211UPG	3.0	250	525	InGaN
OPD-T5210YG	OPD-T5211YG	2.1	20	570	AlGaInP
OPD-T5210LY	OPD-T5211LY	2.1	60	590	AlGaInP
OPD-T5210LA	OPD-T5211LA	2.0	60	610	AlGaInP
OPD-T5210LE	OPD-T5211LE	2.1	60	625	AlGaInP
OPD-T5210LR	OPD-T5211LR	2.1	20	640	AlGaInP

Package Dimension / Internal Circuit



0.52" triple digits display

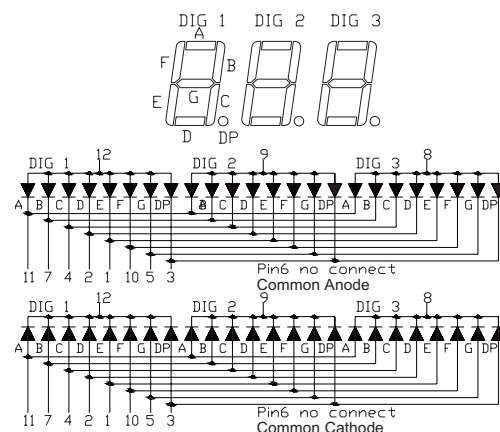
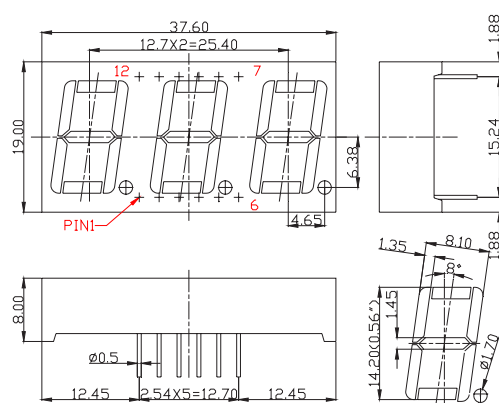
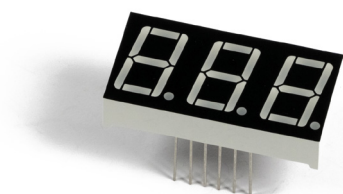


Inquiry

Part Number		IF = 20 mA		Wavelength(nm) λ_d @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V_F (V) Typ.	I_V (mcd) Typ.		
OPD-T5212W	OPD-T5213W	3.0	100	-	InGaN
OPD-T5212LB	OPD-T5213LB	3.0	60	470	InGaN
OPD-T5212UPG	OPD-T5213UPG	3.0	250	525	InGaN
OPD-T5212YG	OPD-T5213YG	2.1	20	570	AlGaInP
OPD-T5212LY	OPD-T5213LY	2.1	60	590	AlGaInP
OPD-T5212LA	OPD-T5213LA	2.0	60	610	AlGaInP
OPD-T5212LE	OPD-T5213LE	2.1	60	625	AlGaInP
OPD-T5212LR	OPD-T5213LR	2.1	20	640	AlGaInP



Package Dimension / Internal Circuit



0.56" triple digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPD-T5610W	OPD-T5611W
OPD-T5610LB	OPD-T5611LB
OPD-T5610UPG	OPD-T5611UPG
OPD-T5610YG	OPD-T5611YG
OPD-T5610LY	OPD-T5611LY
OPD-T5610LA	OPD-T5611LA
OPD-T5610LE	OPD-T5611LE
OPD-T5610LR	OPD-T5611LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	100
3.0	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

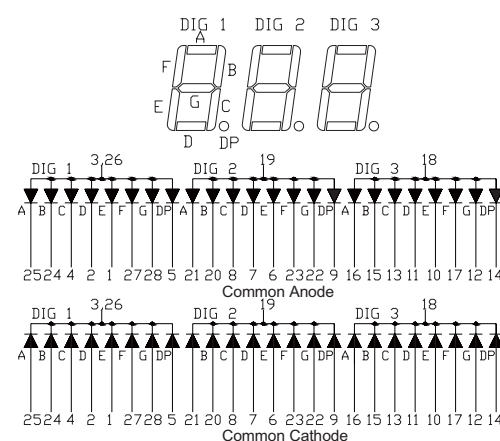
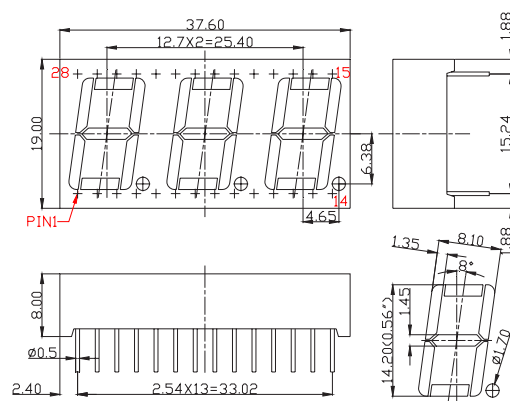
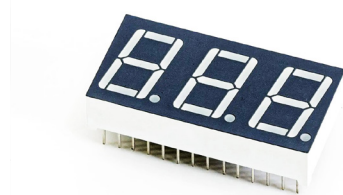
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.56" triple digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPD-T5612W	OPD-T5613W
OPD-T5612LB	OPD-T5613LB
OPD-T5612UPG	OPD-T5613UPG
OPD-T5612YG	OPD-T5613YG
OPD-T5612LY	OPD-T5613LY
OPD-T5612LA	OPD-T5613LA
OPD-T5612LE	OPD-T5613LE
OPD-T5612LR	OPD-T5613LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	100
3.0	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

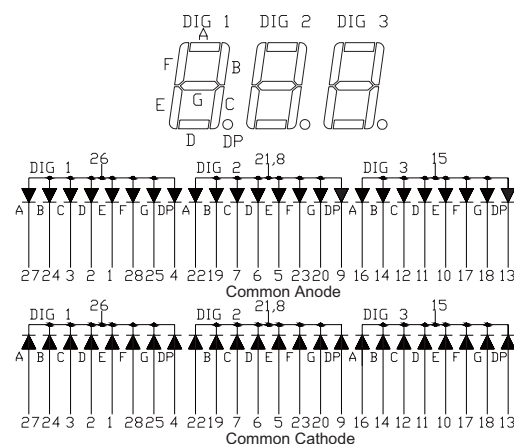
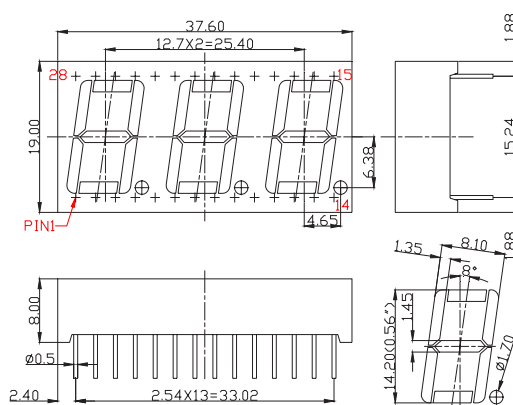
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



0.56" triple digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPD-T5614W	OPD-T5615W
OPD-T5614LB	OPD-T5615LB
OPD-T5614UPG	OPD-T5615UPG
OPD-T5614YG	OPD-T5615YG
OPD-T5614LY	OPD-T5615LY
OPD-T5614LA	OPD-T5615LA
OPD-T5614LE	OPD-T5615LE
OPD-T5614LR	OPD-T5615LR

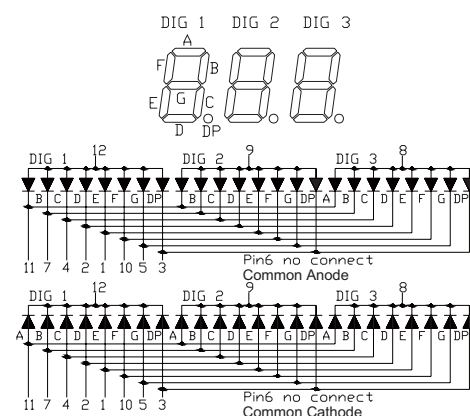
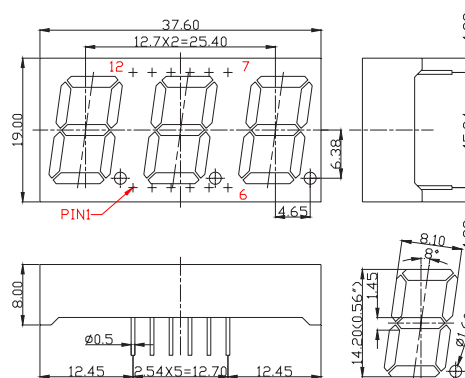
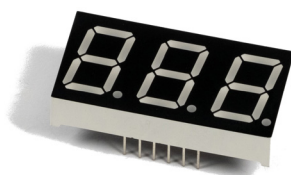
IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.2	100
3.2	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP

Package Dimension / Internal Circuit



0.56" triple digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPD-T5620W	OPD-T5621W
OPD-T5620LB	OPD-T5621LB
OPD-T5620UPG	OPD-T5621UPG
OPD-T5620YG	OPD-T5621YG
OPD-T5620LY	OPD-T5621LY
OPD-T5620LA	OPD-T5621LA
OPD-T5620LE	OPD-T5621LE
OPD-T5620LR	OPD-T5621LR

IF = 20 mA

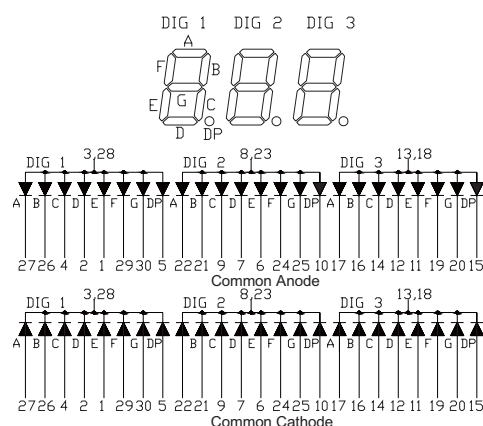
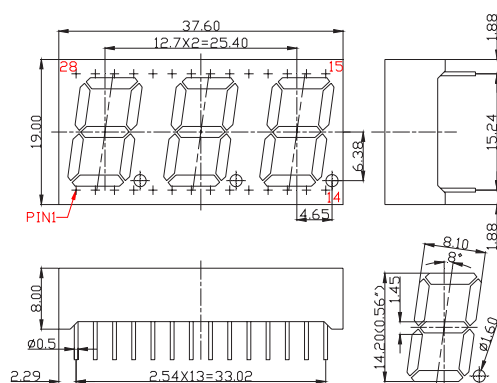
V _F (V) Typ.	I _V (mcd) Typ.
3.0	100
3.0	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP



Package Dimension / Internal Circuit



0.56" triple digits display



Inquiry

Part Number

Common Anode Common Cathode

OPD-T5622W	OPD-T5623W
OPD-T5622LB	OPD-T5623LB
OPD-T5622UPG	OPD-T5623UPG
OPD-T5622YG	OPD-T5623YG
OPD-T5622LY	OPD-T5623LY
OPD-T5622LA	OPD-T5623LA
OPD-T5622LE	OPD-T5623LE
OPD-T5622LR	OPD-T5623LR

IF = 20 mA

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

3.2	100
3.2	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

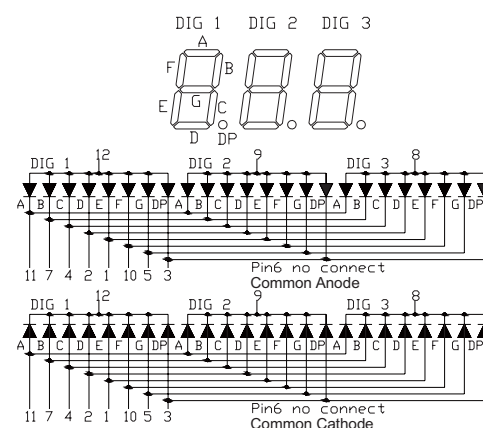
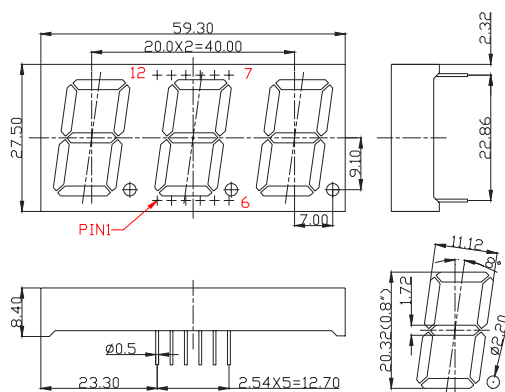
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.80" triple digits display



Inquiry

Part Number

Common Anode Common Cathode

OPD-T8010W	OPD-T8011W
OPD-T8010LB	OPD-T8011LB
OPD-T8010UPG	OPD-T8011UPG
OPD-T8010YG	OPD-T8011YG
OPD-T8010LY	OPD-T8011LY
OPD-T8010LA	OPD-T8011LA
OPD-T8010LE	OPD-T8011LE
OPD-T8010LR	OPD-T8011LR

IF = 20 mA

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

3.0	110
3.0	70
3.0	300
2.1	25
2.1	70
2.0	70
2.1	70
2.1	25

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

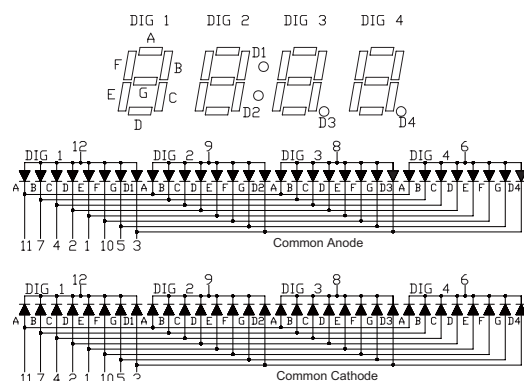
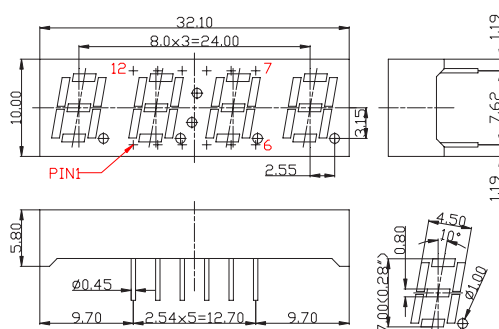
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



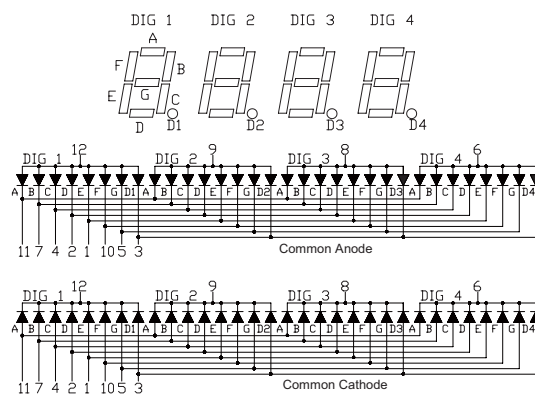
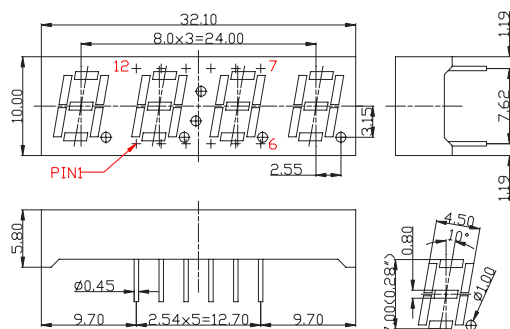
0.28"quadruple digits display



Inquiry

Part Number		IF = 20 mA		Wavelength(nm) λ_d @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V_F (V) Typ.	I_V (mcd) Typ.	
OPD-Q2810W2	OPD-Q2811W2	3.0	80	- InGaN
OPD-Q2810LB	OPD-Q2811LB	3.0	40	470 InGaN
OPD-Q2810UPG	OPD-Q2811UPG	3.0	160	525 InGaN
OPD-Q2810YG	OPD-Q2811YG	2.1	10	570 AlGaNInP
OPD-Q2810LY	OPD-Q2811LY	2.1	40	590 AlGaNInP
OPD-Q2810LA	OPD-Q2811LA	2.0	40	610 AlGaNInP
OPD-Q2810LE	OPD-Q2811LE	2.1	40	625 AlGaNInP
OPD-Q2810LR	OPD-Q2811LR	2.1	10	640 AlGaNInP

Package Dimension / Internal Circuit



0.28"quadruple digits display

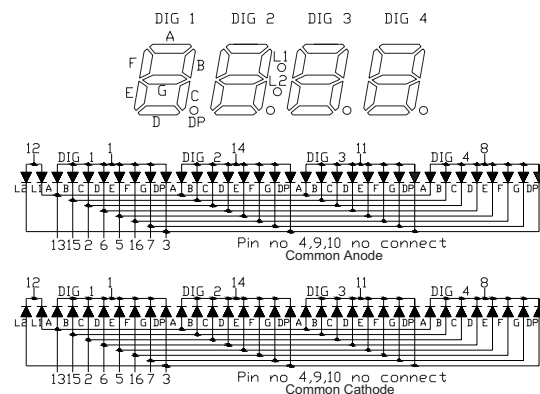
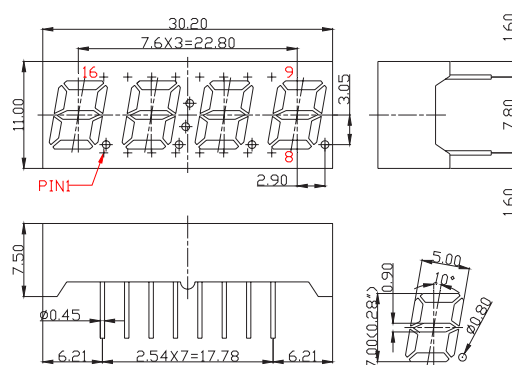


Inquiry

Part Number		IF = 20 mA		Wavelength(nm) λ_d @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V_F (V) Typ.	I_V (mcd) Typ.	
OPD-Q2812W2	OPD-Q2813W2	3.0	80	- InGaN
OPD-Q2812LB	OPD-Q2813LB	3.0	40	470 InGaN
OPD-Q2812UPG	OPD-Q2813UPG	3.0	160	525 InGaN
OPD-Q2812YG	OPD-Q2813YG	2.1	10	570 AlGaNInP
OPD-Q2812LY	OPD-Q2813LY	2.1	40	590 AlGaNInP
OPD-Q2812LA	OPD-Q2813LA	2.0	40	610 AlGaNInP
OPD-Q2812LE	OPD-Q2813LE	2.1	40	625 AlGaNInP
OPD-Q2812LR	OPD-Q2813LR	2.1	10	640 AlGaNInP



Package Dimension / Internal Circuit



0.28"quadruple digits display



Inquiry

Part Number

Common Anode Common Cathode

OPD-Q2820W2	OPD-Q2821W2
OPD-Q2820LB	OPD-Q2821LB
OPD-Q2820UPG	OPD-Q2821UPG
OPD-Q2820YG	OPD-Q2821YG
OPD-Q2820LY	OPD-Q2821LY
OPD-Q2820LA	OPD-Q2821LA
OPD-Q2820LE	OPD-Q2821LE
OPD-Q2820LR	OPD-Q2821LR

IF = 20 mA

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

3.0	80
3.0	40
3.0	160
2.1	10
2.1	2.1
2.0	2.0
2.1	2.1
2.1	2.1

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

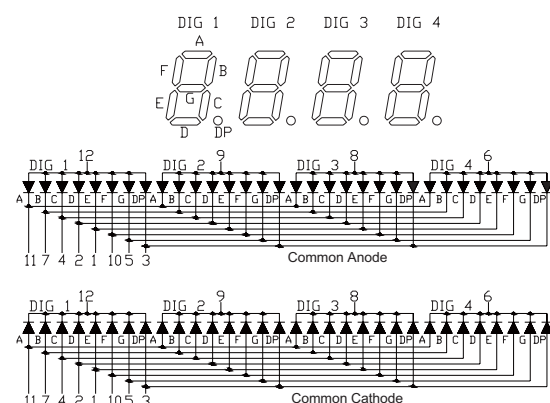
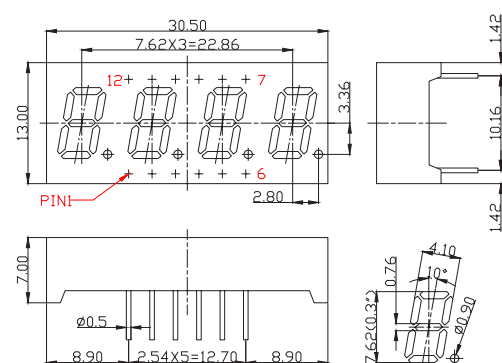
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.30"quadruple digits display



Inquiry

Part Number

Common Anode Common Cathode

OPD-Q3040W2	OPD-Q3041W2
OPD-Q3040LB	OPD-Q3041LB
OPD-Q3040UPG	OPD-Q3041UPG
OPD-Q3040YG	OPD-Q3041YG
OPD-Q3040LY	OPD-Q3041LY
OPD-Q3040LA	OPD-Q3041LA
OPD-Q3040LE	OPD-Q3041LE
OPD-Q3040LR	OPD-Q3041LR

IF = 20 mA

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

3.0	80
3.0	40
3.0	160
2.1	10
2.1	40
2.0	40
2.1	40
2.1	10

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

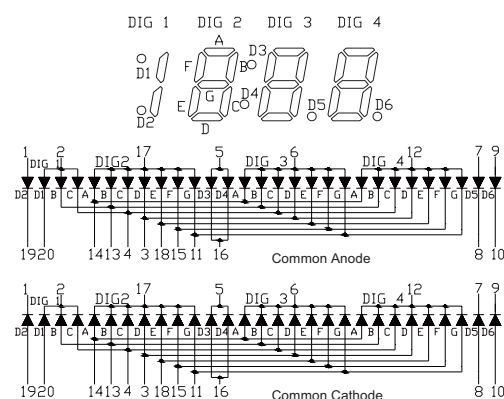
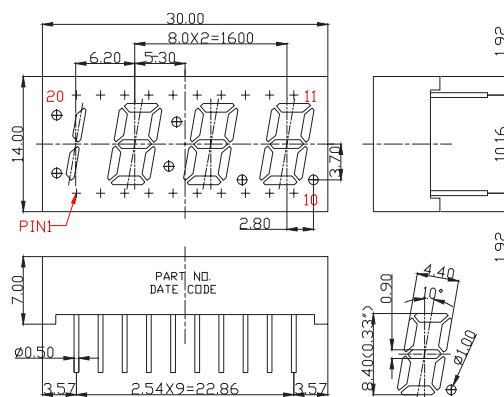
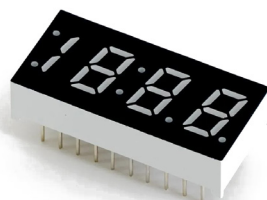
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



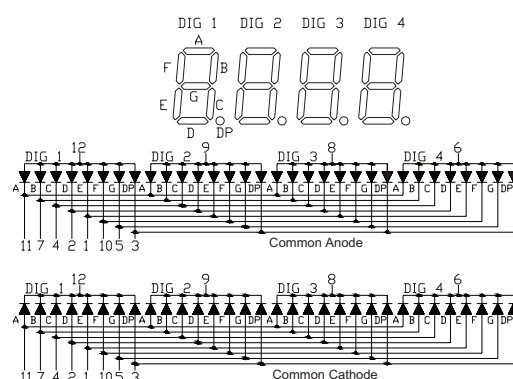
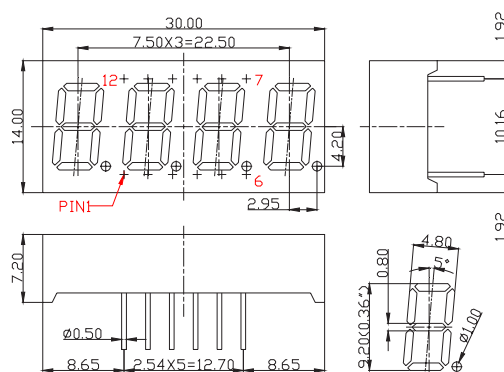
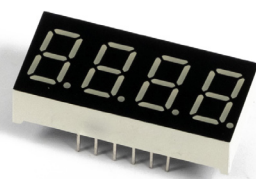
0.33"quadruple digits display



Inquiry

Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.		
OPD-Q3310W	OPD-Q3311W	3.0	80	-	InGaN
OPD-Q3310LB	OPD-Q3311LB	3.0	40	470	InGaN
OPD-Q3310UPG	OPD-Q3311UPG	3.0	160	525	InGaN
OPD-Q3310YG	OPD-Q3311YG	2.1	10	570	AlGaInP
OPD-Q3310LY	OPD-Q3311LY	2.1	40	590	AlGaInP
OPD-Q3310LA	OPD-Q3311LA	2.0	40	610	AlGaInP
OPD-Q3310LE	OPD-Q3311LE	2.1	40	625	AlGaInP
OPD-Q3310LR	OPD-Q3311LR	2.1	10	640	AlGaInP

Package Dimension / Internal Circuit



0.36"quadruple digits display

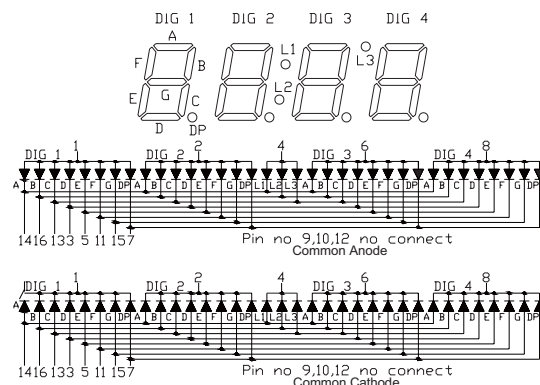
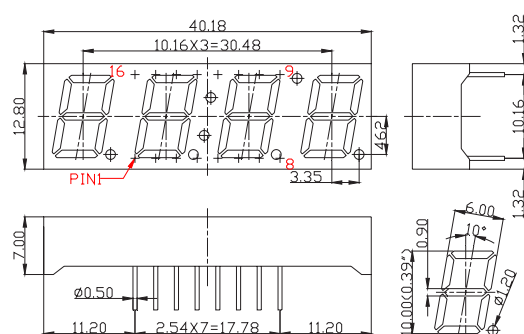
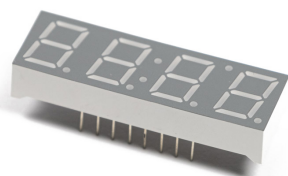


Inquiry

Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.		
OPD-Q3610W	OPD-Q3611W	3.0	80	-	InGaN
OPD-Q3610LB	OPD-Q3611LB	3.0	40	470	InGaN
OPD-Q3610UPG	OPD-Q3611UPG	3.0	160	525	InGaN
OPD-Q3610YG	OPD-Q3611YG	2.1	10	570	AlGaInP
OPD-Q3610LY	OPD-Q3611LY	2.1	40	590	AlGaInP
OPD-Q3610LA	OPD-Q3611LA	2.0	40	610	AlGaInP
OPD-Q3610LE	OPD-Q3611LE	2.1	40	625	AlGaInP
OPD-Q3610LR	OPD-Q3611LR	2.1	10	640	AlGaInP



Package Dimension / Internal Circuit



0.39"quadruple digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPD-Q3910W3	OPD-Q3911W3
OPD-Q3910LB	OPD-Q3911LB
OPD-Q3910UPG	OPD-Q3911UPG
OPD-Q3910YG	OPD-Q3911YG
OPD-Q3910LY	OPD-Q3911LY
OPD-Q3910LA	OPD-Q3911LA
OPD-Q3910LE	OPD-Q3911LE
OPD-Q3910LR	OPD-Q3911LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	80
3.0	40
3.0	160
2.1	10
2.1	40
2.0	40
2.1	40
2.1	10

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

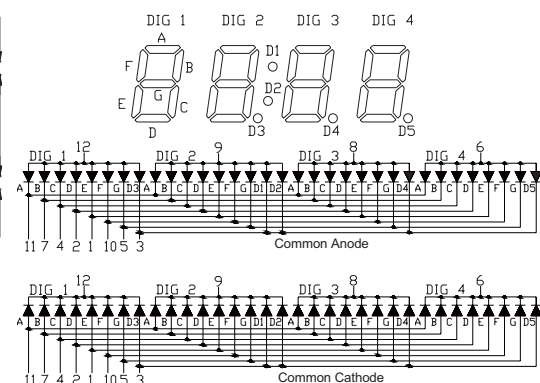
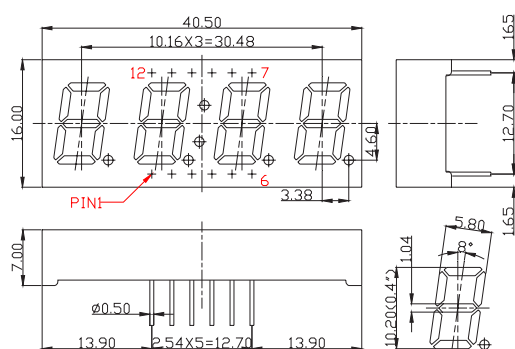
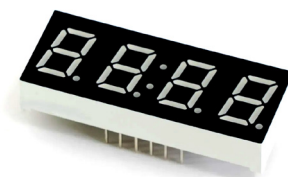
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.40"quadruple digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPD-Q4010W	OPD-Q4011W
OPD-Q4010LB	OPD-Q4011LB
OPD-Q4010UPG	OPD-Q4011UPG
OPD-Q4010YG	OPD-Q4011YG
OPD-Q4010LY	OPD-Q4011LY
OPD-Q4010LA	OPD-Q4011LA
OPD-Q4010LE	OPD-Q4011LE
OPD-Q4010LR	OPD-Q4011LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	80
3.0	40
3.0	160
2.1	10
2.1	40
2.0	40
2.1	40
2.1	10

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

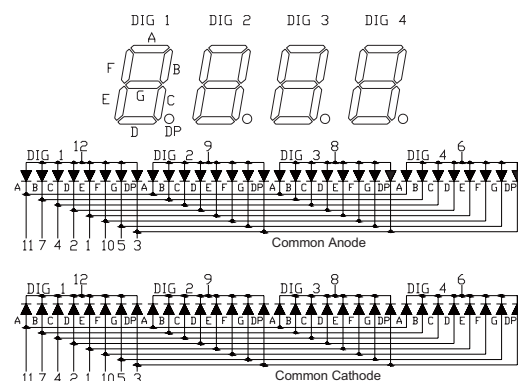
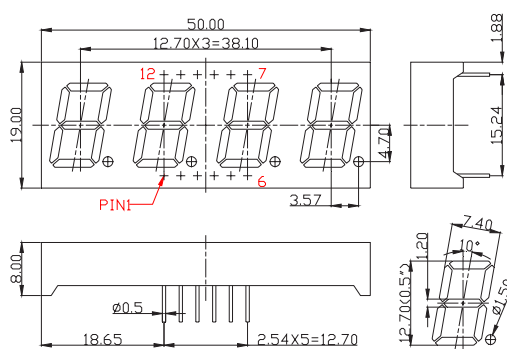
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



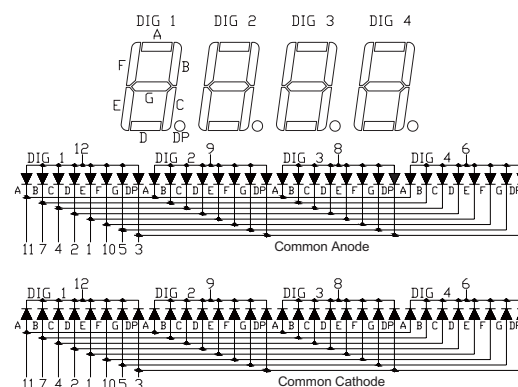
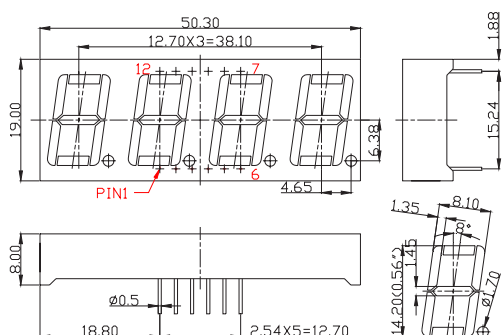
0.50"quadruple digits display



Inquiry

Part Number		IF = 20 mA		Wavelength(nm) λ_d @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V_F (V) Typ.	I_V (mcd) Typ.	
OPD-Q5010W	OPD-Q5011W	3.0	100	- InGaN
OPD-Q5010LB	OPD-Q5011LB	3.0	60	470 InGaN
OPD-Q5010UPG	OPD-Q5011UPG	3.0	250	525 InGaN
OPD-Q5010YG	OPD-Q5011YG	2.1	20	570 AlGaNInP
OPD-Q5010LY	OPD-Q5011LY	2.1	60	590 AlGaNInP
OPD-Q5010LA	OPD-Q5011LA	2.0	60	610 AlGaNInP
OPD-Q5010LE	OPD-Q5011LE	2.1	60	625 AlGaNInP
OPD-Q5010LR	OPD-Q5011LR	2.1	20	640 AlGaNInP

Package Dimension / Internal Circuit



0.56"quadruple digits display

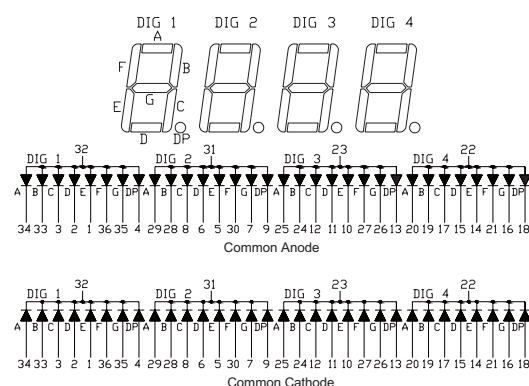
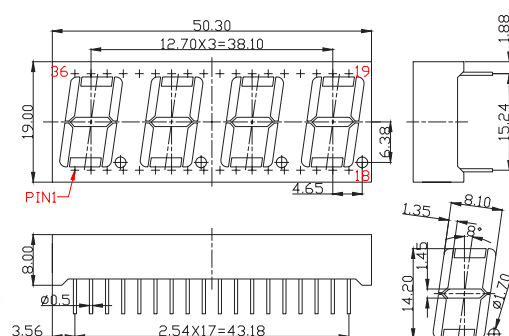
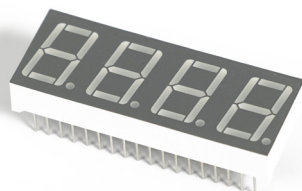


Inquiry

Part Number		IF = 20 mA		Wavelength(nm) λ_d @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V_F (V) Typ.	I_V (mcd) Typ.	
OPD-Q5610W	OPD-Q5611W	3.0	100	- InGaN
OPD-Q5610LB	OPD-Q5611LB	3.0	60	470 InGaN
OPD-Q5610UPG	OPD-Q5611UPG	3.0	250	525 InGaN
OPD-Q5610YG	OPD-Q5611YG	2.1	20	570 AlGaNInP
OPD-Q5610LY	OPD-Q5611LY	2.1	60	590 AlGaNInP
OPD-Q5610LA	OPD-Q5611LA	2.0	60	610 AlGaNInP
OPD-Q5610LE	OPD-Q5611LE	2.1	60	625 AlGaNInP
OPD-Q5610LR	OPD-Q5611LR	2.1	20	640 AlGaNInP



Package Dimension / Internal Circuit



0.56"quadruple digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-Q5612W	OPD-Q5613W
OPD-Q5612LB	OPD-Q5613LB
OPD-Q5612UPG	OPD-Q5613UPG
OPD-Q5612YG	OPD-Q5613YG
OPD-Q5612LY	OPD-Q5613LY
OPD-Q5612LA	OPD-Q5613LA
OPD-Q5612LE	OPD-Q5613LE
OPD-Q5612LR	OPD-Q5613LR

IF = 20 mA

V_F(V) Typ.

I_V(mcd) Typ.

3.0	100
3.0	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

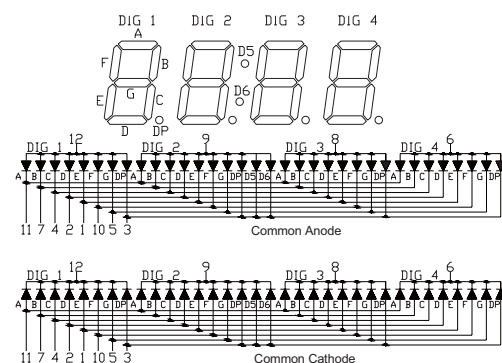
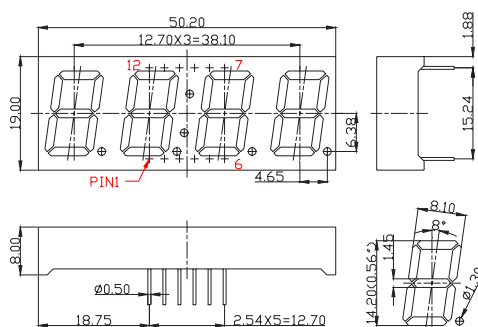
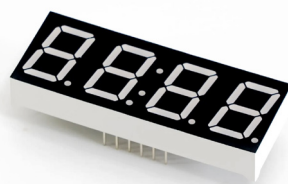
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.56"quadruple digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPD-Q5620W	OPD-Q5621W
OPD-Q5620LB	OPD-Q5621LB
OPD-Q5620UPG	OPD-Q5621UPG
OPD-Q5620YG	OPD-Q5621YG
OPD-Q5620LY	OPD-Q5621LY
OPD-Q5620LA	OPD-Q5621LA
OPD-Q5620LE	OPD-Q5621LE
OPD-Q5620LR	OPD-Q5621LR

IF = 20 mA

V_F(V) Typ.

I_V(mcd) Typ.

3.0	100
3.0	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

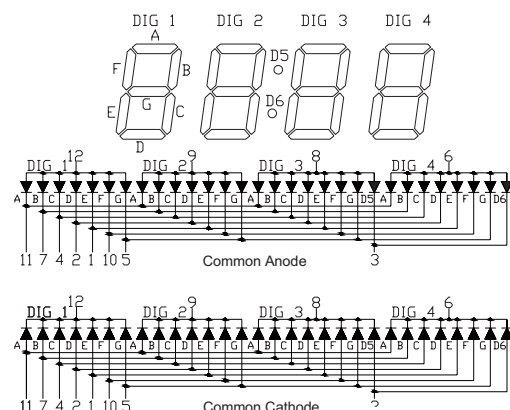
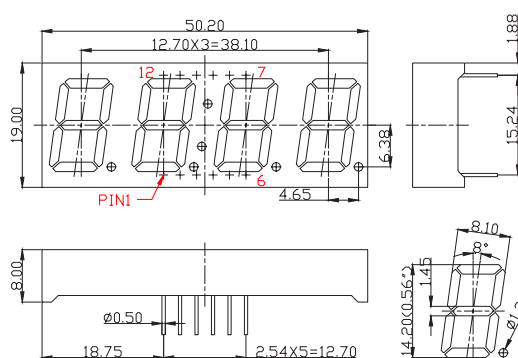
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



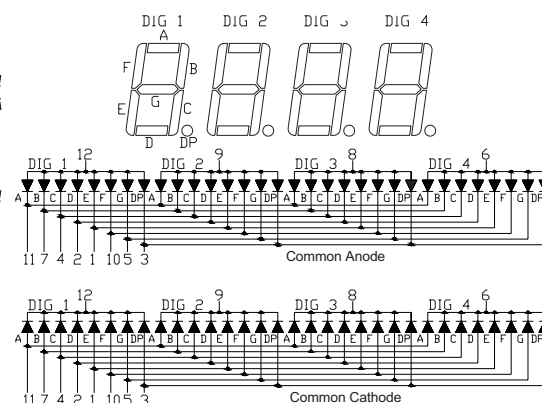
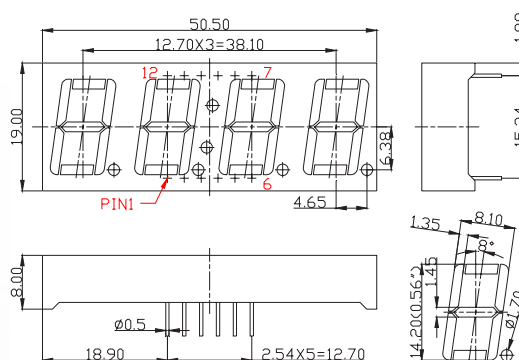
0.56"quadruple digits display



Inquiry

Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.	
OPD-Q5622W	OPD-Q5623W	3.0	100	- InGaN
OPD-Q5622LB	OPD-Q5623LB	3.0	60	470 InGaN
OPD-Q5622UPG	OPD-Q5623UPG	3.0	250	525 InGaN
OPD-Q5622YG	OPD-Q5623YG	2.1	20	570 AlGaNInP
OPD-Q5622LY	OPD-Q5623LY	2.1	60	590 AlGaNInP
OPD-Q5622LA	OPD-Q5623LA	2.0	60	610 AlGaNInP
OPD-Q5622LE	OPD-Q5623LE	2.1	60	625 AlGaNInP
OPD-Q5622LR	OPD-Q5623LR	2.1	20	640 AlGaNInP

Package Dimension / Internal Circuit



0.56"quadruple digits display

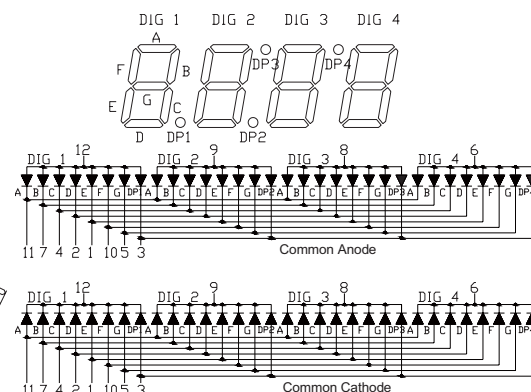
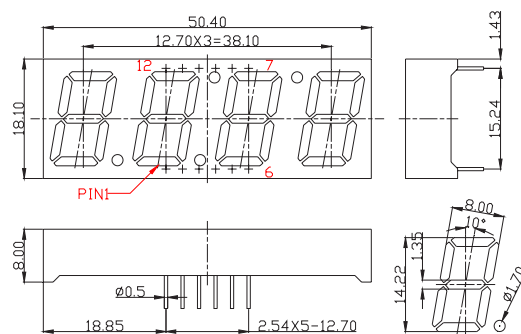


Inquiry

Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.	
OPD-Q5636W	OPD-Q5637W	3.0	100	- InGaN
OPD-Q5636LB	OPD-Q5637LB	3.0	60	470 InGaN
OPD-Q5636UPG	OPD-Q5637UPG	3.0	250	525 InGaN
OPD-Q5636YG	OPD-Q5637YG	2.1	20	570 AlGaNInP
OPD-Q5636LY	OPD-Q5637LY	2.1	60	590 AlGaNInP
OPD-Q5636LA	OPD-Q5637LA	2.0	60	610 AlGaNInP
OPD-Q5636LE	OPD-Q5637LE	2.1	60	625 AlGaNInP
OPD-Q5636LR	OPD-Q5637LR	2.1	20	640 AlGaNInP



Package Dimension / Internal Circuit



0.56"quadruple digits display



Inquiry

Part Number

Common
Anode

Common
Cathode

OPD-Q5640W	OPD-Q5641W
OPD-Q5640LB	OPD-Q5641LB
OPD-Q5640UPG	OPD-Q5641UPG
OPD-Q5640YG	OPD-Q5641YG
OPD-Q5640LY	OPD-Q5641LY
OPD-Q5640LA	OPD-Q5641LA
OPD-Q5640LE	OPD-Q5641LE
OPD-Q5640LR	OPD-Q5641LR

IF = 20 mA

V_F(V)
Typ.

I_V(mcd)
Typ.

3.0	100
3.0	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

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

- White

470 Blue

525 Pure Green

570 Yellow Green

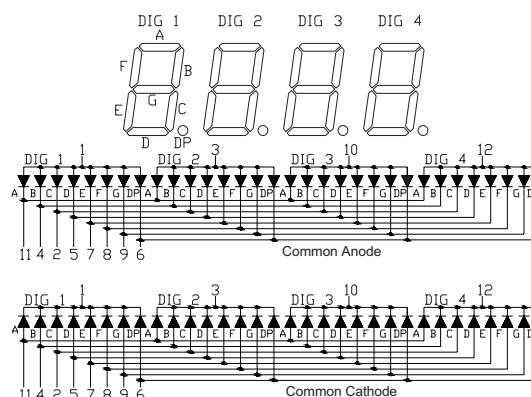
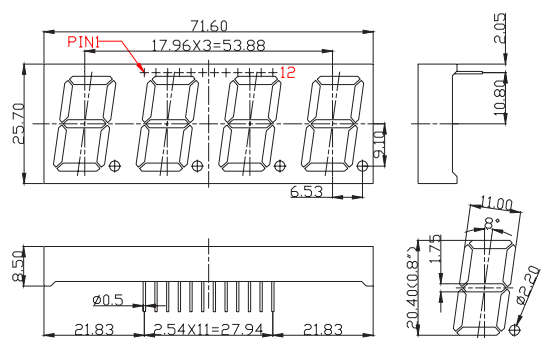
590 Yellow

610 Amber

625 Orange Red

640 Red

Package Dimension / Internal Circuit



0.80"quadruple digits display



Inquiry

Part Number

Common
Anode

Common
Cathode

OPD-Q8010W	OPD-Q8011W
OPD-Q8010LB	OPD-Q8011LB
OPD-Q8010UPG	OPD-Q8011UPG
OPD-Q8010YG	OPD-Q8011YG
OPD-Q8010LY	OPD-Q8011LY
OPD-Q8010LA	OPD-Q8011LA
OPD-Q8010LE	OPD-Q8011LE
OPD-Q8010LR	OPD-Q8011LR

IF = 20 mA

V_F(V)
Typ.

I_V(mcd)
Typ.

3.0	110
3.0	70
3.0	300
2.1	25
2.1	70
2.0	70
2.1	70
2.1	25

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

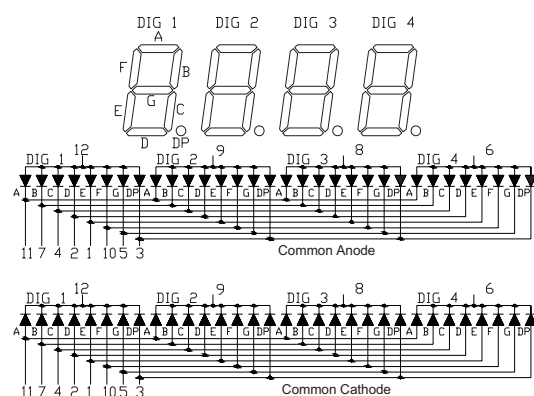
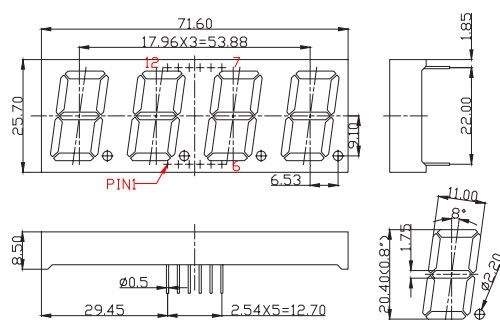
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



0.80"quadruple digits display



Inquiry

Part Number

Common
Anode

Common
Cathode

OPD-Q8012W	OPD-Q8013W
OPD-Q8012LB	OPD-Q8013LB
OPD-Q8012UPG	OPD-Q8013UPG
OPD-Q8012YG	OPD-Q8013YG
OPD-Q8012LY	OPD-Q8013LY
OPD-Q8012LA	OPD-Q8013LA
OPD-Q8012LE	OPD-Q8013LE
OPD-Q8012LR	OPD-Q8013LR

IF = 20 mA

V_F(V)
Typ.

I_V(mcd)
Typ.

3.0	110
3.0	70
3.0	300
2.1	25
2.1	70
2.0	70
2.1	70
2.1	25

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

InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Alphanumeric Display



Package Dimension / Internal Circuit

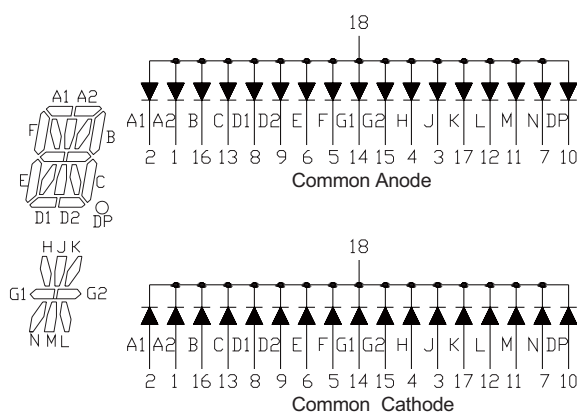
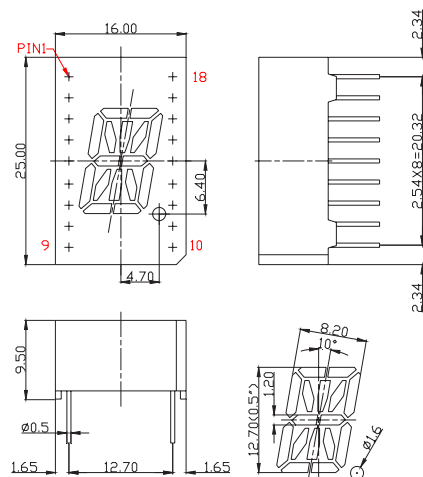


0.5"

alphanumeric digits display



Inquiry



Part Number

Common Anode	Common Cathode
OPD-AS5010W2	OPD-AS5011W2
OPD-AS5010LB	OPD-AS5011LB
OPD-AS5010UPG	OPD-AS5011UPG
OPD-AS5010YG	OPD-AS5011YG
OPD-AS5010LY	OPD-AS5011LY
OPD-AS5010LA	OPD-AS5011LA
OPD-AS5010LE	OPD-AS5011LE
OPD-AS5010LR	OPD-AS5011LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	80
3.0	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

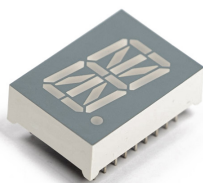
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit

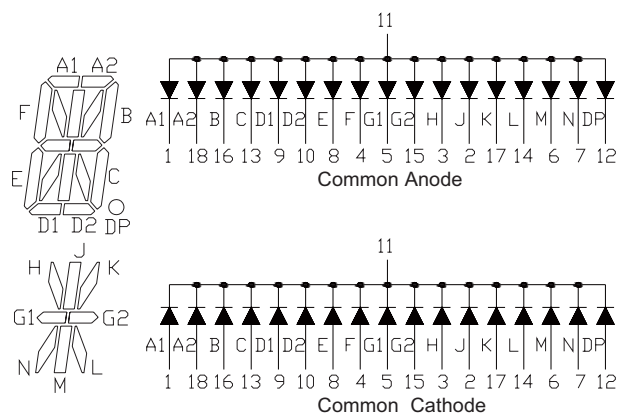
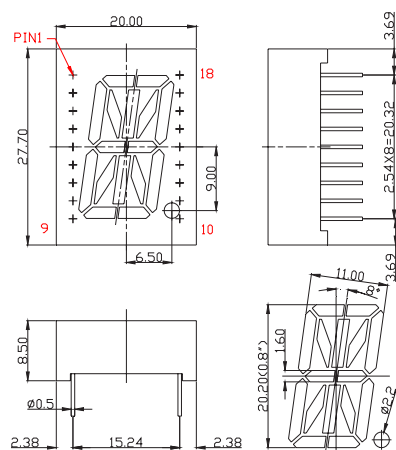


0.8"

alphanumeric digits display



Inquiry



Part Number

Common Anode	Common Cathode
OPD-AS8020W	OPD-AS8021W
OPD-AS8020LB	OPD-AS8021LB
OPD-AS8020UPG	OPD-AS8021UPG
OPD-AS8020YG	OPD-AS8021YG
OPD-AS8020LY	OPD-AS8021LY
OPD-AS8020LA	OPD-AS8021LA
OPD-AS8020LE	OPD-AS8021LE
OPD-AS8020LR	OPD-AS8021LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	110
3.0	70
3.0	300
2.1	25
2.1	70
2.0	70
2.1	70
2.1	25

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

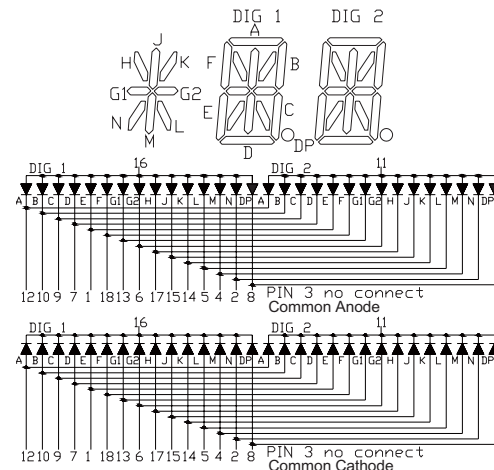
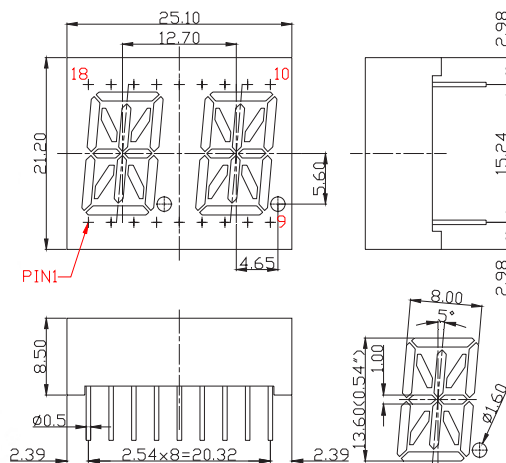
610 AlGaNInP

625 AlGaNInP

640 AlGaNInP



Package Dimension / Internal Circuit



0.53" dual alphanumeric digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPD-AD5320W	OPD-AD5321W
OPD-AD5320LB	OPD-AD5321LB
OPD-AD5320UPG	OPD-AD5321UPG
OPD-AD5320YG	OPD-AD5321YG
OPD-AD5320LY	OPD-AD5321LY
OPD-AD5320LA	OPD-AD5321LA
OPD-AD5320LE	OPD-AD5321LE
OPD-AD5320LR	OPD-AD5321LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	100
3.0	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

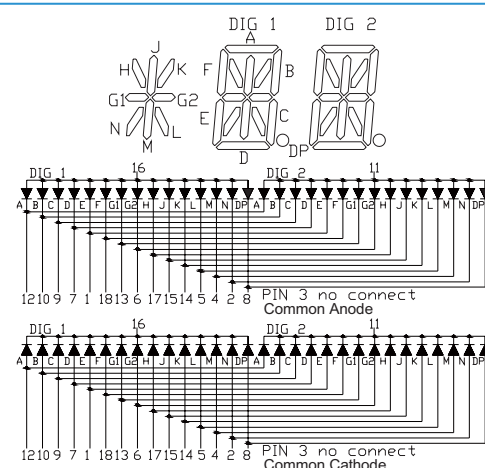
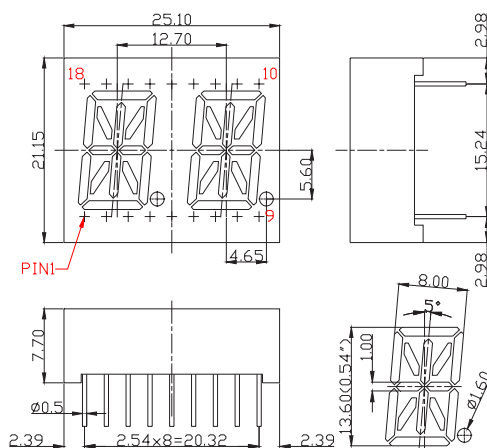
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.53" dual alphanumeric digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPD-AD5330W	OPD-AD5331W
OPD-AD5330LB	OPD-AD5331LB
OPD-AD5330UPG	OPD-AD5331UPG
OPD-AD5330YG	OPD-AD5331YG
OPD-AD5330LY	OPD-AD5331LY
OPD-AD5330LA	OPD-AD5331LA
OPD-AD5330LE	OPD-AD5331LE
OPD-AD5330LR	OPD-AD5331LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	100
3.0	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

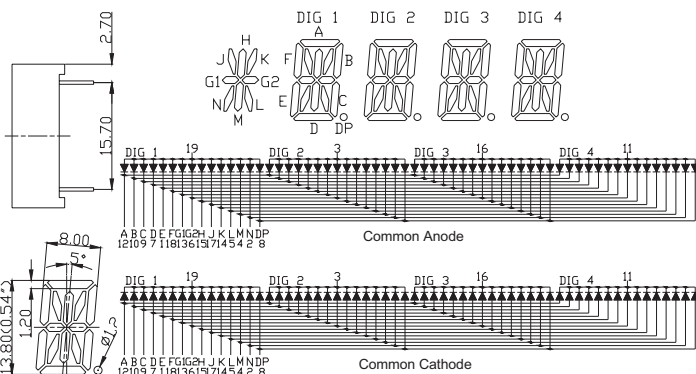
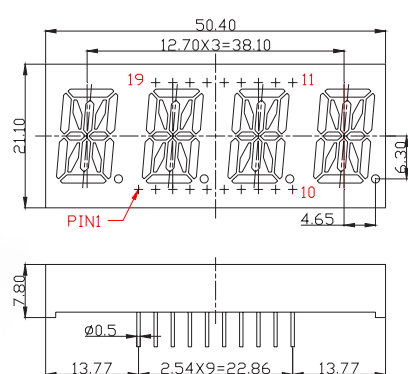
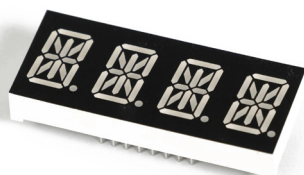
640 AlGaNInP



Alphanumeric Display



Package Dimension / Internal Circuit



0.54"
quadruple
alphanumeric
digits display



Inquiry

Part Number

Common
Anode

Common
Cathode

OPD-AQ5420W	OPD-AQ5421W
OPD-AQ5420LB	OPD-AQ5421LB
OPD-AQ5420UPG	OPD-AQ5421UPG
OPD-AQ5420YG	OPD-AQ5421YG
OPD-AQ5420LY	OPD-AQ5421LY
OPD-AQ5420LA	OPD-AQ5421LA
OPD-AQ5420LE	OPD-AQ5421LE
OPD-AQ5420LR	OPD-AQ5421LR

IF = 20 mA

V_F(V)
Typ.

I_V(mcd)
Typ.

3.0	100
3.0	60
3.0	250
2.1	20
2.1	60
2.0	60
2.1	60
2.1	20

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

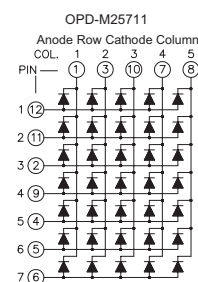
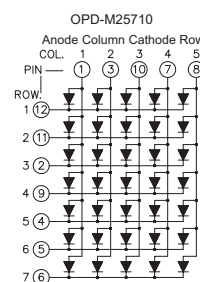
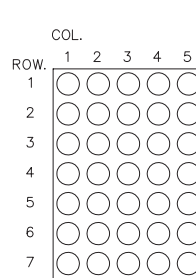
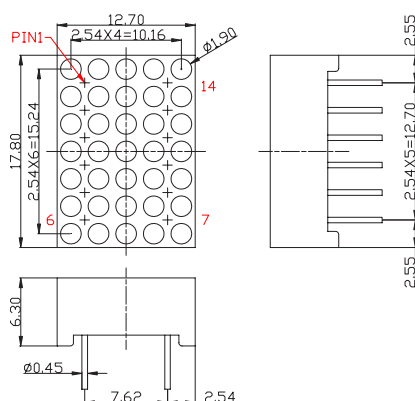
-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP



Dot Matrix Display



Package Dimension / Internal Circuit



0.67" 5X7 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M25710W2	OPD-M25711W2
OPD-M25710LB	OPD-M25711LB
OPD-M25710UPG	OPD-M25711UPG
OPD-M25710YG	OPD-M25711YG
OPD-M25710LY	OPD-M25711LY
OPD-M25710LA	OPD-M25711LA
OPD-M25710LE	OPD-M25711LE
OPD-M25710LR	OPD-M25711LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.2	70
3.2	70
3.0	400
2.0	20
2.0	70
2.0	70
2.0	70
2.0	70
2.0	20

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

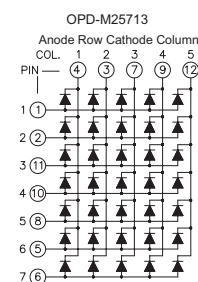
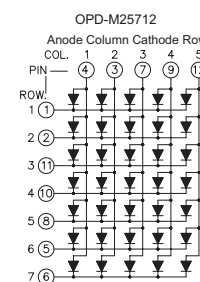
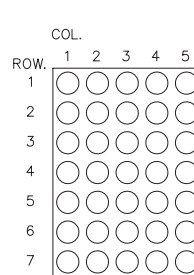
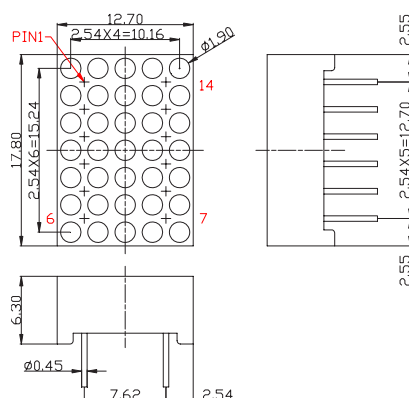
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



0.67" 5X7 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M25712W2	OPD-M25713W2
OPD-M25712LB	OPD-M25713LB
OPD-M25712UPG	OPD-M25713UPG
OPD-M25712YG	OPD-M25713YG
OPD-M25712LY	OPD-M25713LY
OPD-M25712LA	OPD-M25713LA
OPD-M25712LE	OPD-M25713LE
OPD-M25712LR	OPD-M25713LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.2	70
3.2	70
3.0	400
2.0	20
2.0	70
2.0	70
2.0	70
2.0	70
2.0	20

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

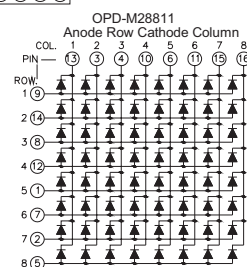
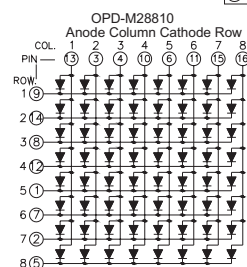
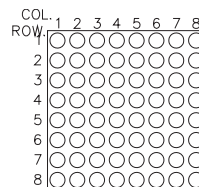
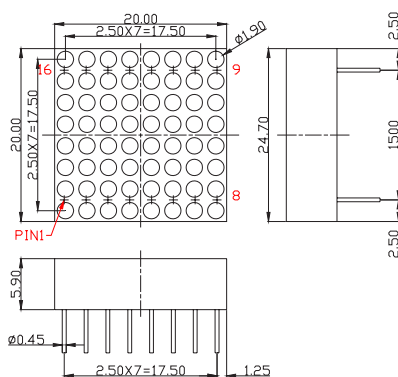
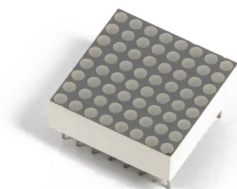
640 AlGaNInP



Dot Matrix Display



Package Dimension / Internal Circuit



0.76" 8X8 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M28810W2	OPD-M28811W2
OPD-M28810LB	OPD-M28811LB
OPD-M28810UPG	OPD-M28811UPG
OPD-M28810YG	OPD-M28811YG
OPD-M28810LY	OPD-M28811LY
OPD-M28810LA	OPD-M28811LA
OPD-M28810LE	OPD-M28811LE
OPD-M28810LR	OPD-M28811LR

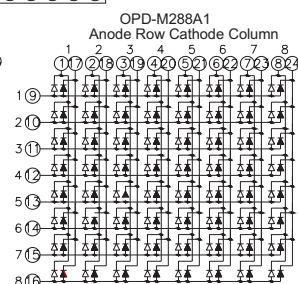
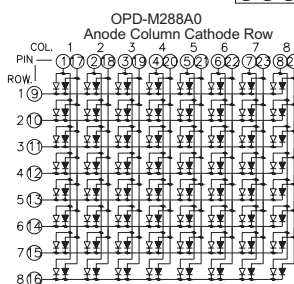
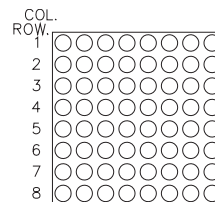
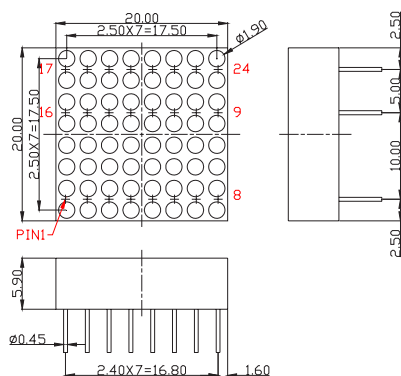
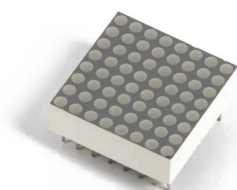
IF = 20 mA

V_F (V) Typ.	I_V (mcd) Typ.
3.2	70
3.2	70
3.0	400
2.0	20
2.0	70
2.0	70
2.0	70
2.0	20

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP

Package Dimension / Internal Circuit



0.76" 8X8 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M288A0UPGUE	OPD-M288A1UPGUE
OPD-M288A0YGLE	OPD-M288A1YGLE
OPD-M288A0XXXX	OPD-M288A1XXXX

IF = 20 mA

V_F (V) Typ.	I_V (mcd) Typ.
3.0	400
2.0	200
2.0	20
2.0	100

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

525	Pure Green
623	Orange Red
570	Yellow Green
625	Orange Red

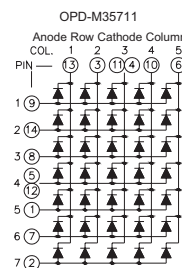
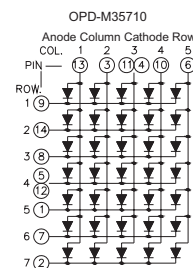
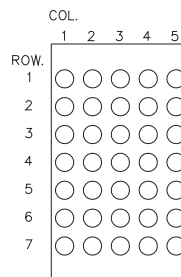
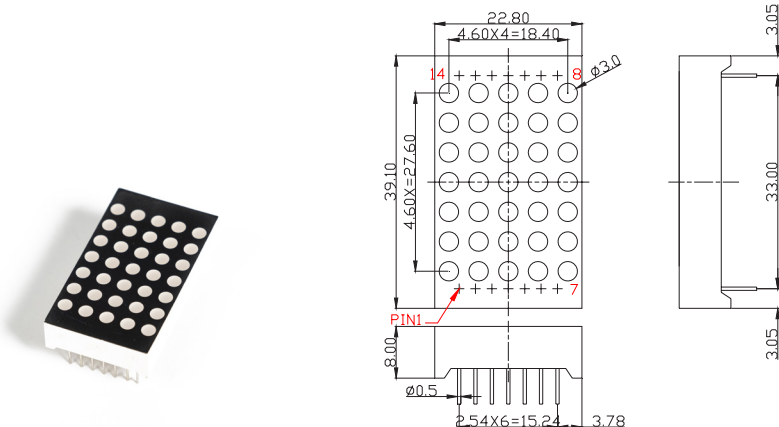
Any color available (1)
Any color available (2)



Dot Matrix Display



Package Dimension / Internal Circuit



1.2" 5X7 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M35710W	OPD-M35711W
OPD-M35710LB	OPD-M35711LB
OPD-M35710UPG	OPD-M35711UPG
OPD-M35710YG	OPD-M35711YG
OPD-M35710LY	OPD-M35711LY
OPD-M35710LA	OPD-M35711LA
OPD-M35710LE	OPD-M35711LE
OPD-M35710LR	OPD-M35711LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.2	140
3.2	140
3.0	500
2.0	25
2.0	140
2.0	140
2.0	140
2.0	25

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

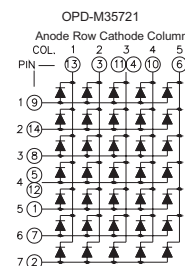
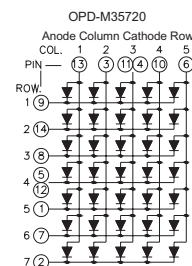
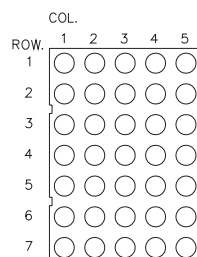
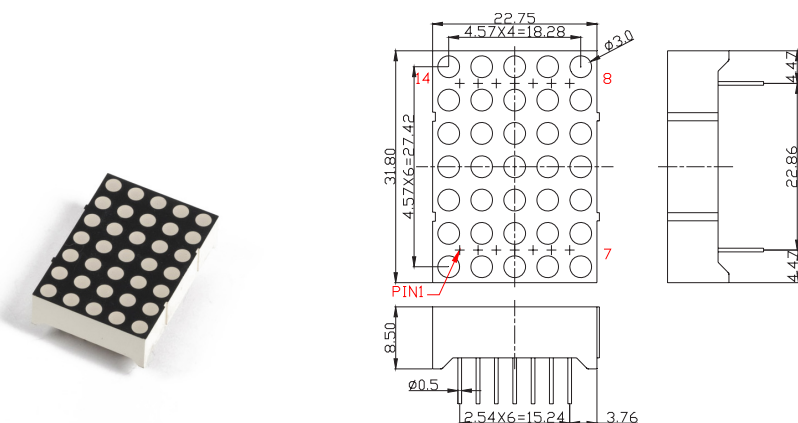
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



1.2" 5X7 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M35720W	OPD-M35721W
OPD-M35720LB	OPD-M35721LB
OPD-M35720UPG	OPD-M35721UPG
OPD-M35720YG	OPD-M35721YG
OPD-M35720LY	OPD-M35721LY
OPD-M35720LA	OPD-M35721LA
OPD-M35720LE	OPD-M35721LE
OPD-M35720LR	OPD-M35721LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.2	140
3.2	140
3.0	500
2.0	25
2.0	140
2.0	140
2.0	140
2.0	25

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

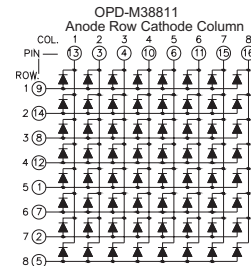
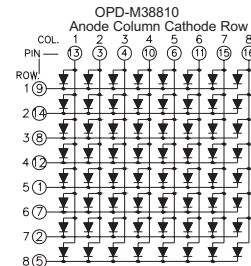
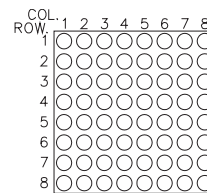
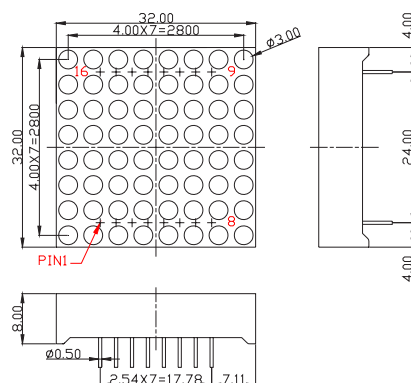
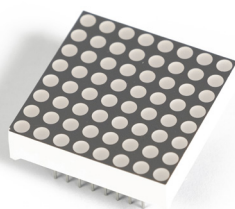
640 AlGaNInP



Dot Matrix Display



Package Dimension / Internal Circuit



1.22" 8X8 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M38810W	OPD-M38811W
OPD-M38810LB	OPD-M38811LB
OPD-M38810UPG	OPD-M38811UPG
OPD-M38810YG	OPD-M38811YG
OPD-M38810LY	OPD-M38811LY
OPD-M38810LA	OPD-M38811LA
OPD-M38810LE	OPD-M38811LE
OPD-M38810LR	OPD-M38811LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.2	140
3.2	140
3.0	500
2.0	25
2.0	140
2.0	140
2.0	140
2.0	25

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

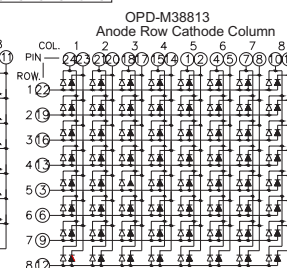
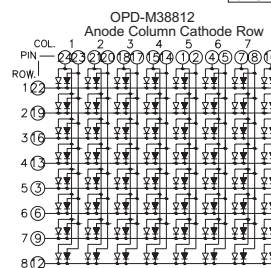
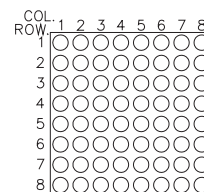
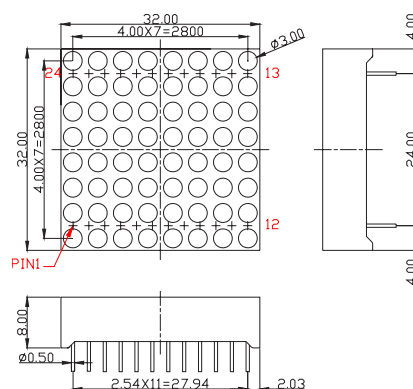
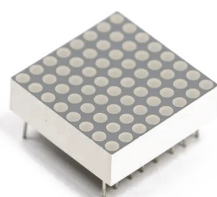
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



1.22" 8X8 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M38812UPGUE	OPD-M38813UPGUE
OPD-M38812YGLE	OPD-M38813YGLE
OPD-M38812XXXX	OPD-M38813XXXX

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	500
2.0	400
2.0	25
2.0	140

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

525 Pure Green

623 Orange Red

570 Yellow Green

625 Orange Red

Any color available (1)

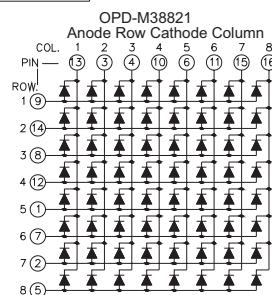
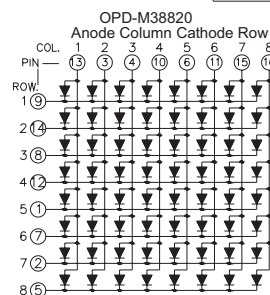
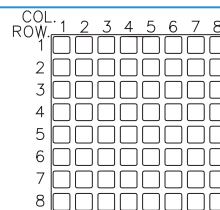
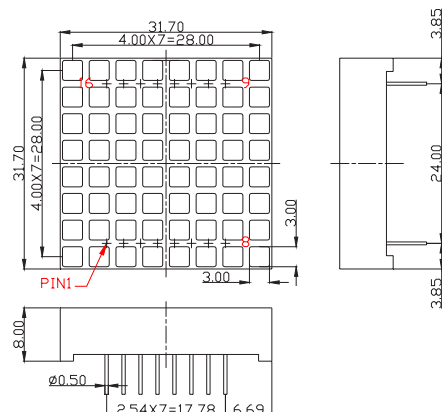
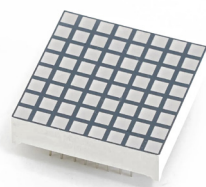
Any color available (2)



Dot Matrix Display



Package Dimension / Internal Circuit



1.22" 8X8 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M38820W	OPD-M38821W
OPD-M38820LB	OPD-M38821LB
OPD-M38820UPG	OPD-M38821UPG
OPD-M38820YG	OPD-M38821YG
OPD-M38820LY	OPD-M38821LY
OPD-M38820LA	OPD-M38821LA
OPD-M38820LE	OPD-M38821LE
OPD-M38820LR	OPD-M38821LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.2	140
3.2	140
3.0	500
2.0	25
2.0	140
2.0	140
2.0	140
2.0	25

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

- InGaN

470 InGaN

525 InGaN

570 AlGaInP

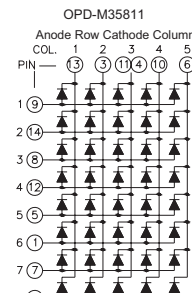
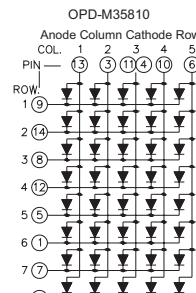
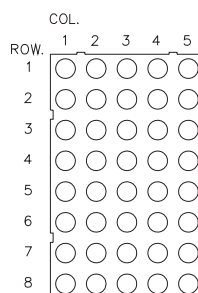
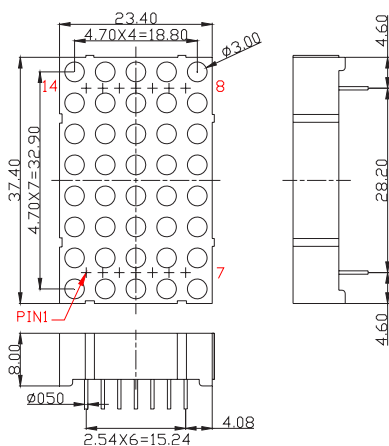
590 AlGaInP

610 AlGaInP

625 AlGaInP

640 AlGaInP

Package Dimension / Internal Circuit



1.4" 5X8 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M35810W	OPD-M35811W
OPD-M35810LB	OPD-M35811LB
OPD-M35810UPG	OPD-M35811UPG
OPD-M35810YG	OPD-M35811YG
OPD-M35810LY	OPD-M35811LY
OPD-M35810LA	OPD-M35811LA
OPD-M35810LE	OPD-M35811LE
OPD-M35810LR	OPD-M35811LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.2	140
3.2	140
3.0	500
2.0	25
2.0	140
2.0	140
2.0	140
2.0	25

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

- InGaN

470 InGaN

525 InGaN

570 AlGaInP

590 AlGaInP

610 AlGaInP

625 AlGaInP

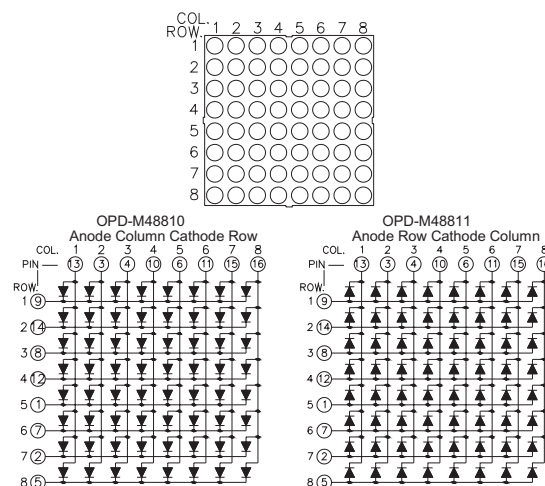
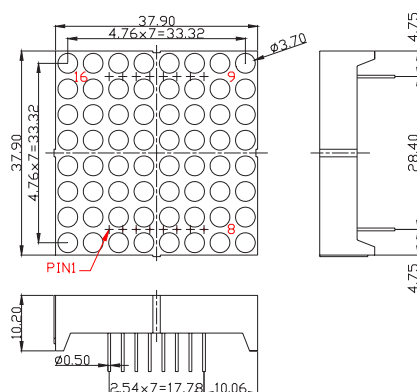
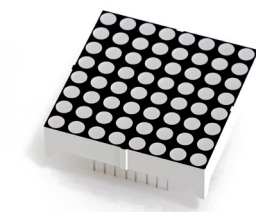
640 AlGaInP



Dot Matrix Display



Package Dimension / Internal Circuit



1.46" 8X8 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M48810W	OPD-M48811W
OPD-M48810LB	OPD-M48811LB
OPD-M48810UPG	OPD-M48811UPG
OPD-M48810YG	OPD-M48811YG
OPD-M48810LY	OPD-M48811LY
OPD-M48810LA	OPD-M48811LA
OPD-M48810LE	OPD-M48811LE
OPD-M48810LR	OPD-M48811LR

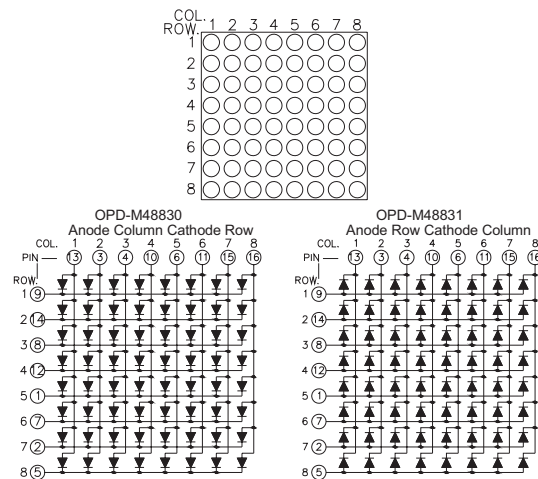
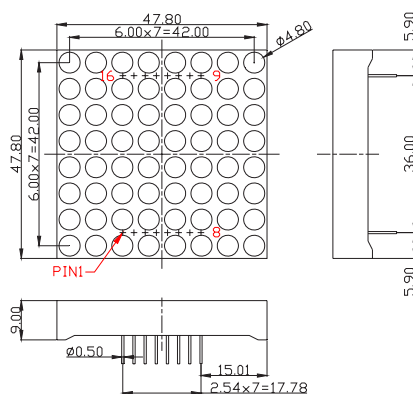
IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.2	160
3.2	160
3.0	600
2.0	28
2.0	160
2.0	160
2.0	160
2.0	28

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP

Package Dimension / Internal Circuit



1.8" 8X8 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M48830W	OPD-M48831W
OPD-M48830LB	OPD-M48831LB
OPD-M48830UPG	OPD-M48831UPG
OPD-M48830YG	OPD-M48831YG
OPD-M48830LY	OPD-M48831LY
OPD-M48830LA	OPD-M48831LA
OPD-M48830LE	OPD-M48831LE
OPD-M48830LR	OPD-M48831LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.2	180
3.2	180
3.0	600
2.0	30
2.0	180
2.0	180
2.0	180
2.0	30

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

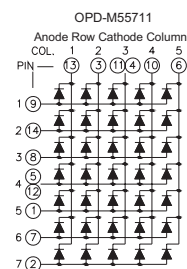
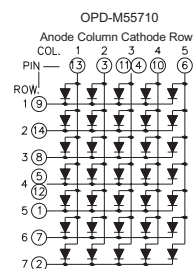
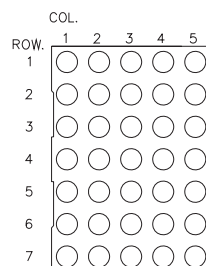
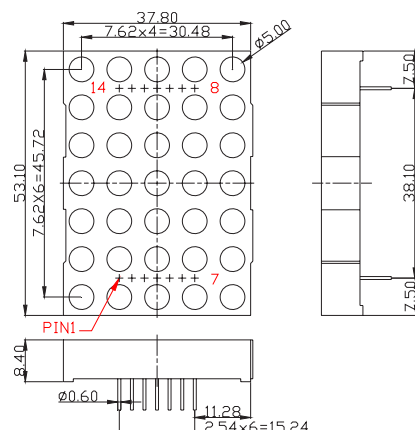
-	InGaN
470	InGaN
525	InGaN
570	AlGaNInP
590	AlGaNInP
610	AlGaNInP
625	AlGaNInP
640	AlGaNInP



Dot Matrix Display



Package Dimension / Internal Circuit



2.0" 5X7 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M55710W	OPD-M55711W
OPD-M55710LB	OPD-M55711LB
OPD-M55710UPG	OPD-M55711UPG
OPD-M55710YG	OPD-M55711YG
OPD-M55710LY	OPD-M55711LY
OPD-M55710LA	OPD-M55711LA
OPD-M55710LE	OPD-M55711LE
OPD-M55710LR	OPD-M55711LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.2	200
3.2	200
3.0	700
2.0	35
2.0	200
2.0	200
2.0	200
2.0	35

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

- InGaN

470 InGaN

525 InGaN

570 AlGaNInP

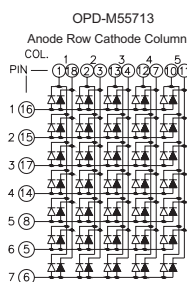
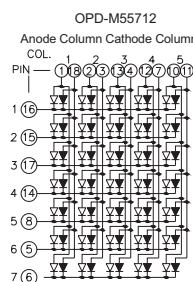
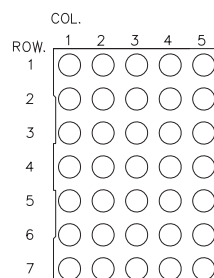
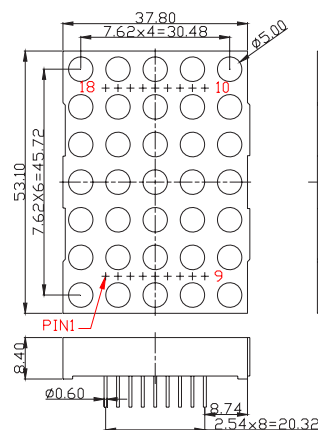
590 AlGaNInP

610 AlGaNInP

625 AlGaNInP

640 AlGaNInP

Package Dimension / Internal Circuit



One color
Two color

2.0" 5X7 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M55712UPGUE	OPD-M55713UPGUE
OPD-M55712YGLE	OPD-M55713YGLE
OPD-M55712XXXX	OPD-M55713XXXX

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	700
2.0	500
2.0	35
2.0	200

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

525 Pure Green

623 Orange Red

570 Yellow Green

625 Orange Red

Any color available (1)

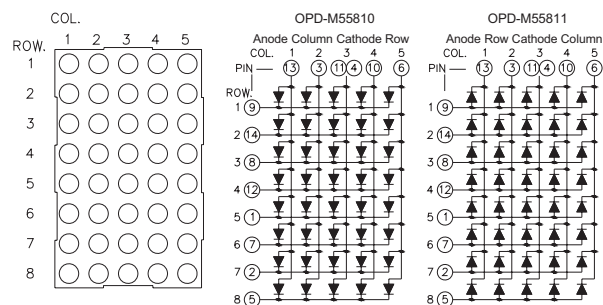
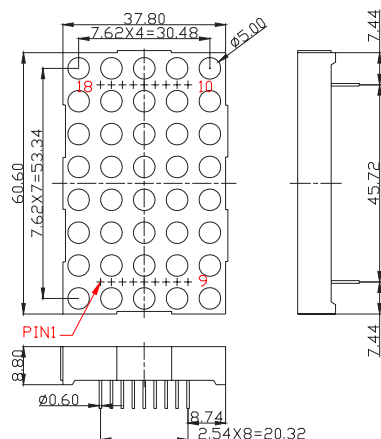
Any color available (2)



Dot Matrix Display



Package Dimension / Internal Circuit



2.3" 5X8 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M55810W	OPD-M55811W
OPD-M55810LB	OPD-M55811LB
OPD-M55810UPG	OPD-M55811UPG
OPD-M55810YG	OPD-M55811YG
OPD-M55810LY	OPD-M55811LY
OPD-M55810LA	OPD-M55811LA
OPD-M55810LE	OPD-M55811LE
OPD-M55810LR	OPD-M55811LR

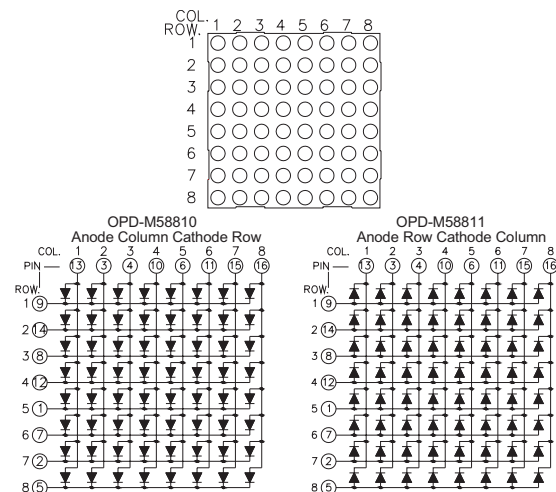
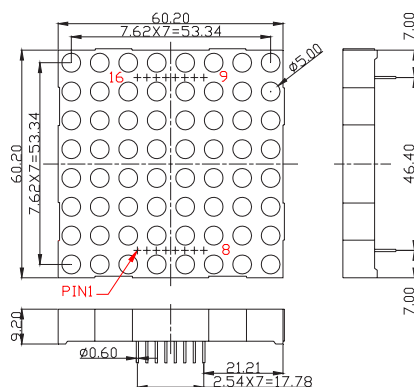
IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.2	200
3.2	200
3.0	700
2.0	35
2.0	200
2.0	200
2.0	200
2.0	35

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaInP
590	AlGaInP
610	AlGaInP
625	AlGaInP
640	AlGaInP

Package Dimension / Internal Circuit



2.3" 8X8 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M58810W	OPD-M58811W
OPD-M58810LB	OPD-M58811LB
OPD-M58810UPG	OPD-M58811UPG
OPD-M58810YG	OPD-M58811YG
OPD-M58810LY	OPD-M58811LY
OPD-M58810LA	OPD-M58811LA
OPD-M58810LE	OPD-M58811LE
OPD-M58810LR	OPD-M58811LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.2	200
3.2	200
3.0	700
2.0	35
2.0	200
2.0	200
2.0	200
2.0	35

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

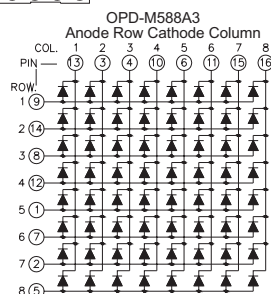
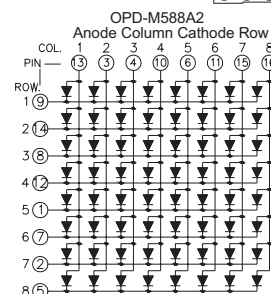
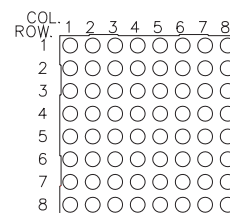
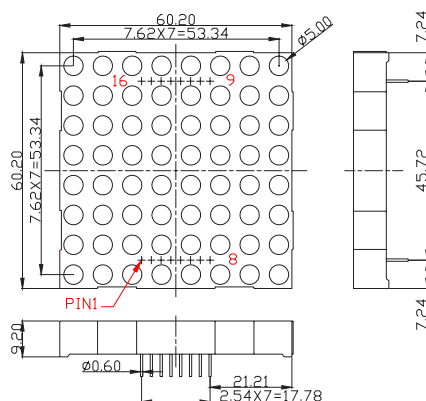
-	InGaN
470	InGaN
525	InGaN
570	AlGaInP
590	AlGaInP
610	AlGaInP
625	AlGaInP
640	AlGaInP



Dot Matrix Display



Package Dimension / Internal Circuit



2.3" 8X8 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M588A2W	OPD-M588A3W
OPD-M588A2LB	OPD-M588A3LB
OPD-M588A2UPG	OPD-M588A3UPG
OPD-M588A2YG	OPD-M588A3YG
OPD-M588A2LY	OPD-M588A3LY
OPD-M588A2LA	OPD-M588A3LA
OPD-M588A2LE	OPD-M588A3LE
OPD-M588A2LR	OPD-M588A3LR

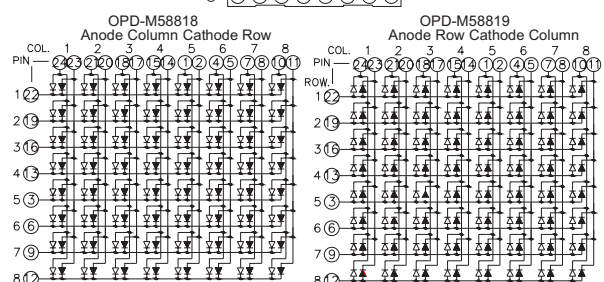
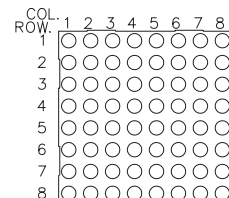
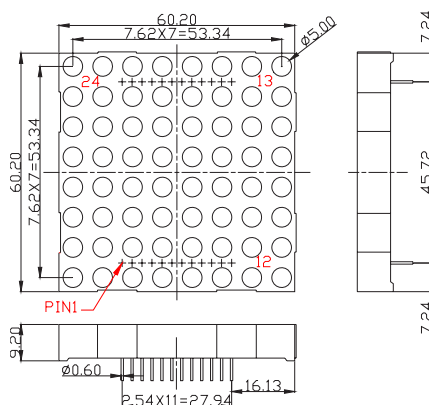
IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.2	200
3.2	200
3.0	700
2.0	35
2.0	200
2.0	200
2.0	200
2.0	35

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaInP
590	AlGaInP
610	AlGaInP
625	AlGaInP
640	AlGaInP

Package Dimension / Internal Circuit



2.3" 8X8 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M58818UPGUE	OPD-M58819UPGUE
OPD-M58818YGLE	OPD-M58819YGLE
OPD-M58818XXXX	OPD-M58819XXXX

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	700
2.0	500
2.0	35
2.0	200

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

525	Pure Green
623	Orange Red
570	Yellow Green
625	Orange Red

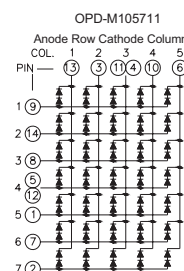
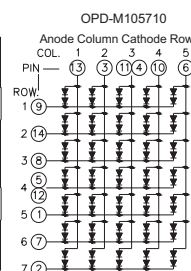
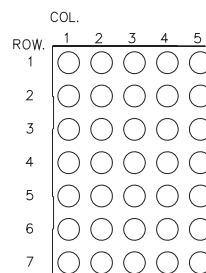
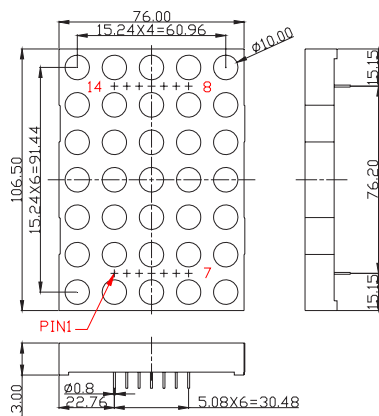
Any color available (1)
Any color available (2)



Dot Matrix Display



Package Dimension / Internal Circuit



4.0" 5X7 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M105710W	OPD-M105711W
OPD-M105710LB	OPD-M105711LB
OPD-M105710UPG	OPD-M105711UPG
OPD-M105710YG	OPD-M105711G
OPD-M105710LY	OPD-M105711LY
OPD-M105710LA	OPD-M105711LA
OPD-M105710LE	OPD-M105711LE
OPD-M105710LR	OPD-M105711LR

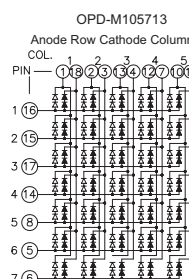
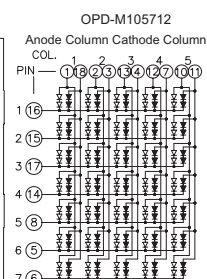
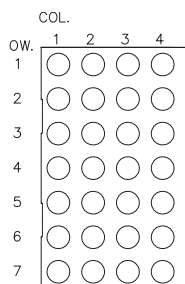
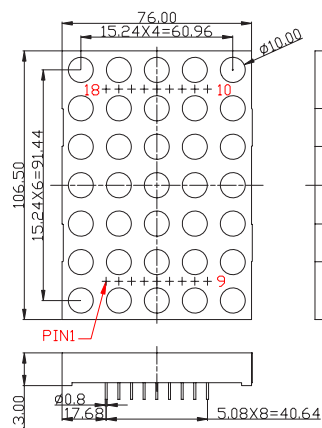
IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
6.4	400
6.4	400
6.0	1400
4.0	60
4.0	400
4.0	400
4.0	400
4.0	60

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

-	InGaN
470	InGaN
525	InGaN
570	AlGaInP
590	AlGaInP
610	AlGaInP
625	AlGaInP
640	AlGaInP

Package Dimension / Internal Circuit



One color
Two color

4.0" 5X7 dot matrix display



Inquiry

Part Number

Anode Column Cathode Row	Anode Row Cathode Column
OPD-M105712UPGUE	OPD-M105713UPGUE
OPD-M105712YGLE	OPD-M105713YGLE
OPD-M105712XXXX	OPD-M105713XXXX

IF = 20 mA

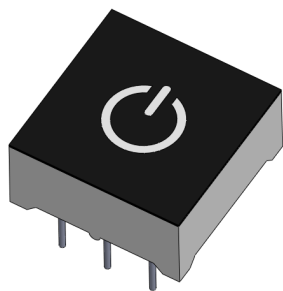
V _F (V) Typ.	I _V (mcd) Typ.
6.0	1400
4.0	1000
4.0	60
4.0	400

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

525	Pure Green
623	Orange Red
570	Yellow Green
625	Orange Red

Any color available (1)

Any color available (2)

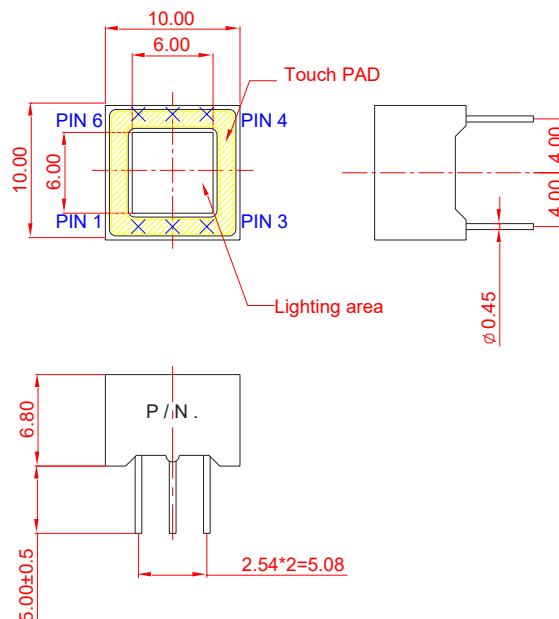


0.39"x 0.39"
icon display



Inquiry

*Excluding Overlay



NOTE:

Dimension in millimeters (inches),
and tolerances are $\pm 0.25\text{mm}$ (.01") specified.

*Overlay (Thickness=0.20mm)

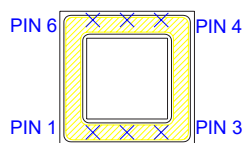


Part Number

OPD-V1010F5-PD

Supply Voltage=4.5-5.5V
(IC materials)

Operation Current = 2mA
(R/G/B NO LOAD)



PIN 1 : Power Supply.
PIN 2 : Touch PAD.
PIN 3 : Control Data Signal Output.
PIN 4 : Ground.
PIN 5 : Touch PAD.
PIN 6 : Control Data Signal Input

IF=5mA
(mcd)
Min

180

80

30

IF=5mA
(mcd)
Max

260

160

70

Wavelength(nm)
 λ_d @ IF = 5 mA

526 G

622 R

467 B

The single wire data transfer protocol supports 24-bit data for each LED RGB display data refresh. The IC receives 24-bit data and passes the remaining data to next LED. The 24-bit data consist of green, red and blue data, each with 8-bit width, and are transferred with **MSB first**.

G8 G7 G6 G5 G4 G3 G2 G1 G0

R8 R7 R6 R5 R4 R3 R2 R1 R0

B8 B7 B6 B5 B4 B3 B2 B1 B0

The transferred data are recognized based on the pulse widths received by the IC. A low bit 0 is represented by a 0.3us high pulse followed by a 0.9us low pulse. A high bit 1 is represented by a 0.9us high pulse followed by a 0.3us low pulse.



Inquiry

Technical drawing of the PCB layout for the 12864 module. The drawing includes a top view, a side view, and a bottom view.

Top View: A square layout with overall dimensions of 10.00mm by 10.00mm. The central area is a 6.00mm by 6.00mm square. The corners are labeled PIN 1, PIN 2, PIN 3, and PIN 4. The top edge is labeled PIN 6 and the bottom edge is labeled PIN 5. The central area is labeled "Lighting area" and the outer square is labeled "Touch PAD". The distance from the center to the edge is 5.00±0.5mm.

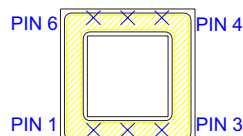
Side View: Shows the module's profile with a height of 6.80mm and a width of 2.54mm.

Bottom View: Shows the module's footprint with dimensions 2.54*2=5.08mm and 5.00±0.5mm.

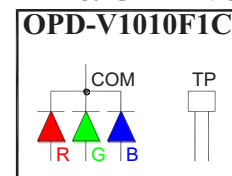
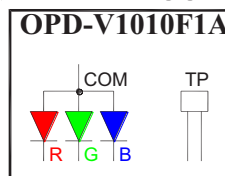
*Overlay (Thickness=0.20mm)



PIN 1 : Blue color.
PIN 2 : Touch PAD.
PIN 3 : Red color.
PIN 4 : Common PIN.
PIN 5 : Touch PAD.
PIN 6 : Green color.



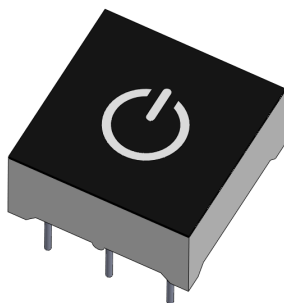
※EMITTED COLOR : RED & GREEN & BLUE



Part Number	IF = 5 mA		Wavelength(nm) λd @ IF = 5 mA	
	V _F (V) Typ.	I _V (mcd) Typ.		
OPD-V1010F1A-PD	1.9	60	620	R
	2.5	150	533	G
	2.5	30	470	B
OPD-V1010F1C-PD	1.9	60	620	R
	2.5	150	533	G
	2.5	30	470	B



Package Dimension / Internal Circuit



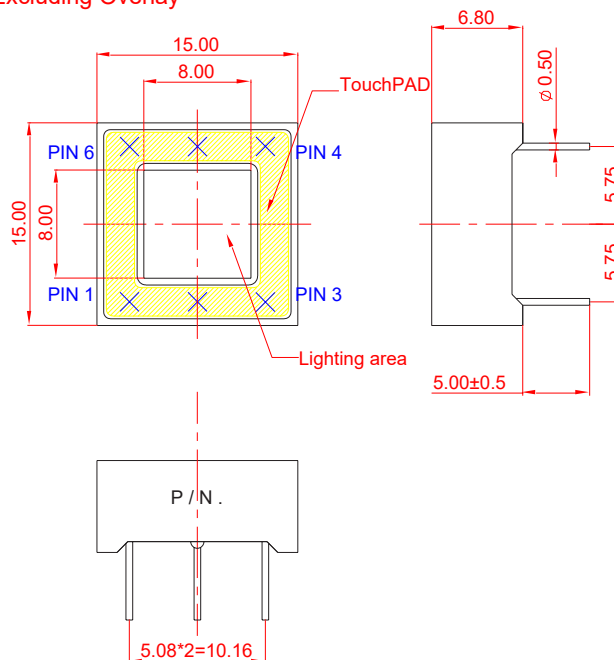
0.59"x 0.59"
icon display



Inquiry



*Excluding Overlay



NOTE:
Dimension in millimeters (inches),
and tolerances are $\pm 0.25\text{mm}$ (.01") specified.

*Overlay (Thickness=0.20mm)

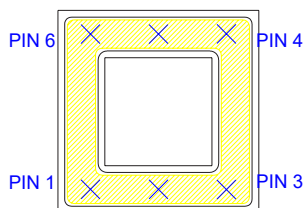


Part Number

OPD-V1515F5-PD

Supply Voltage=4.5-5.5V
(IC materials)

Operation Current = 2mA
(R/G/B NO LOAD)



PIN 1 : Power Supply.
PIN 2 : Touch PAD.
PIN 3 : Control Data Signal Output.
PIN 4 : Ground.
PIN 5 : Touch PAD.
PIN 6 : Control Data Signal Input

IF=5mA
(mcd)
Min

180

80

30

IF=5mA
(mcd)
Max

260

160

70

Wavelength(nm)
 λ_d @ IF = 5mA

526 G

622 R

467 B

The single wire data transfer protocol supports 24-bit data for each LED RGB display data refresh. The IC receives 24-bit data and passes the remaining data to next LED. The 24-bit data consist of green, red and blue data, each with 8-bit width, and are transferred with **MSB first**.

G8 G7 G6 G5 G4 G3 G2 G1 G0

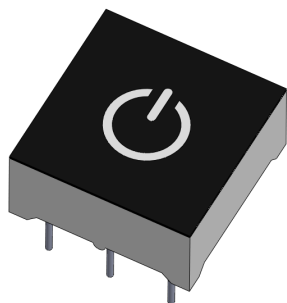
R8 R7 R6 R5 R4 R3 R2 R1 R0

B8 B7 B6 B5 B4 B3 B2 B1 B0

The transferred data are recognized based on the pulse widths received by the IC. A low bit 0 is represented by a 0.3us high pulse followed by a 0.9us low pulse. A high bit 1 is represented by a 0.9us high pulse followed by a 0.3us low pulse.



Package Dimension / Internal Circuit



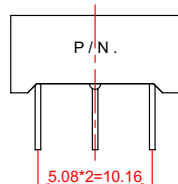
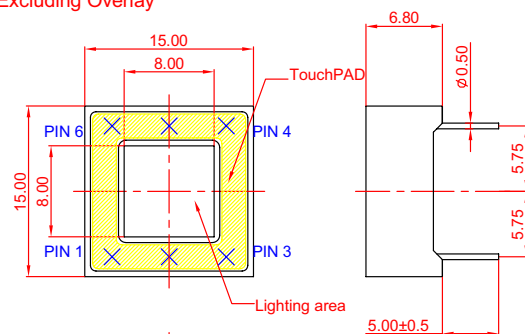
0.59"x 0.59"
icon display



Inquiry

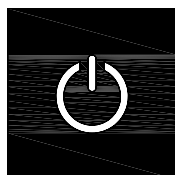


*Excluding Overlay

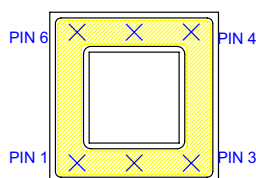


NOTE:
Dimension in millimeters (inches),
and tolerances are $\pm 0.25\text{mm}$ (.01") specified.

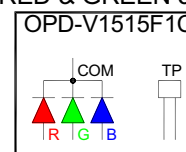
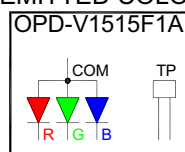
*Overlay (Thickness=0.20mm)



PIN 1 : Blue color.
PIN 2 : Touch PAD.
PIN 3 : Red color.
PIN 4 : Common PIN.
PIN 5 : Touch PAD.
PIN 6 : Green color.



※EMITTED COLOR : RED & GREEN & BLUE



Part Number

IF = 5 mA

Wavelength(nm) λ_d @ IF = 5 mA

OPD-V1515F1A-PD

1.9 60

2.5 150

2.5 30

620 R

533 G

470 B

OPD-V1515F1C-PD

1.9 60

2.5 150

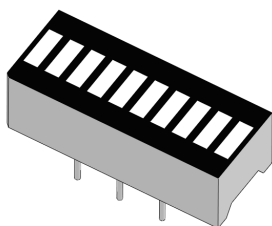
2.5 30

620 R

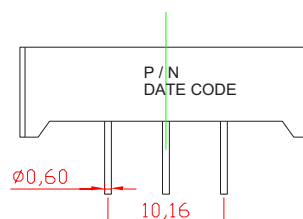
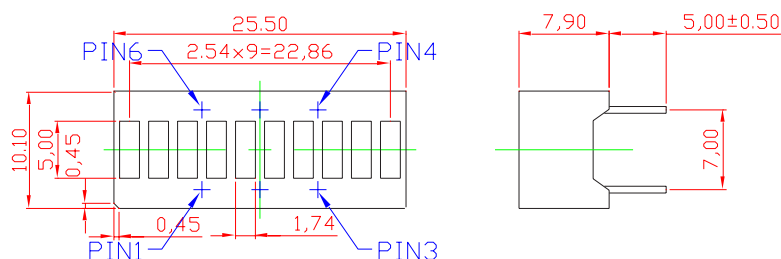
533 G

470 B

Package Dimension / Internal Circuit

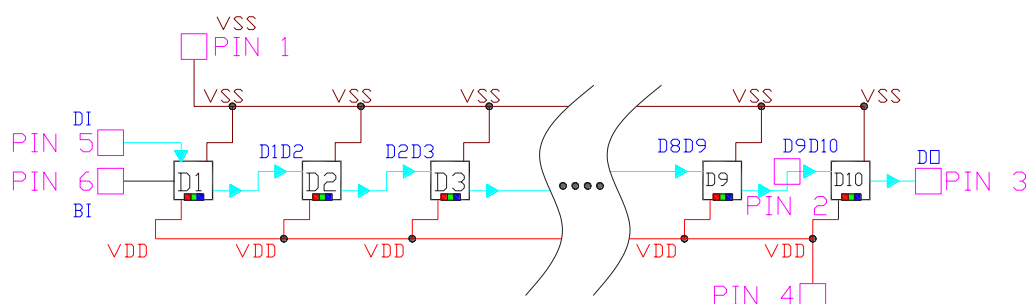
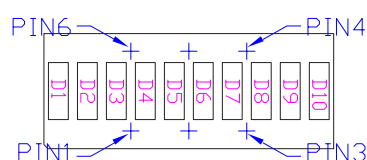


10 rectangular light bar display



NOTE:

1. Dimension in millimeters (inches),
And tolerances are $\pm 0.25\text{mm}$ (.01") specified.
2. Bending<Length : 2%



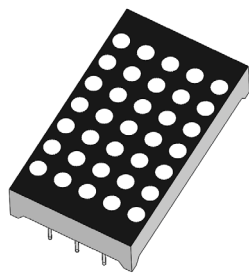
Part Number

OPD-B1025A0F6
(With Backup Data Signal Input)

Supply Voltage=4.5-5.5V
(IC materials)
Operation Current = 2mA
(R/G/B NO LOAD)

IF=5mA (mcd) Min	IF=5mA (mcd) Max	Wavelength(nm) λd @ IF = 5 mA	
70	175	622 R	R8 R7 R6 R5 R4 R3 R2 R1 R0
160	290	527 G	G8 G7 G6 G5 G4 G3 G2 G1 G0
25	80	467 B	B8 B7 B6 B5 B4 B3 B2 B1 B0

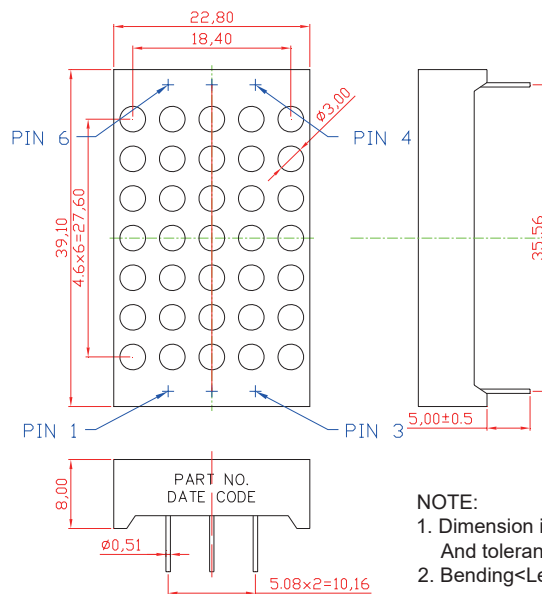
The transferred data are recognized based on the pulse widths received by the IC. A low bit 0 is represented by a 0.3us high pulse followed by a 0.9us low pulse. A high bit 1 is represented by a 0.9us highpulse followed by a 0.3us low pulse.



5x7 Dot matrix display

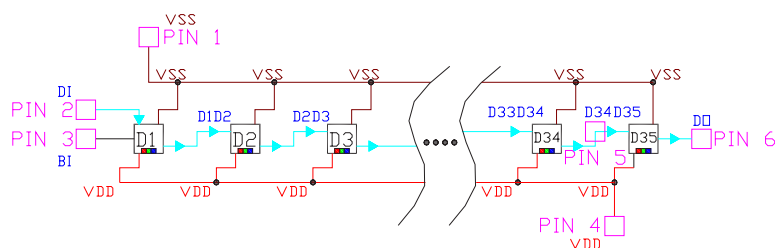
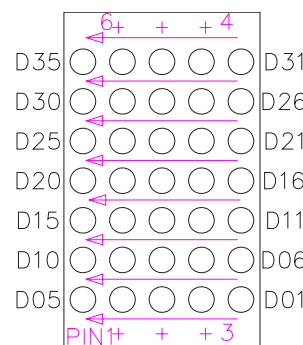


Inquiry



NOTE:

1. Dimension in millimeters (inches), And tolerances are $\pm 0.25\text{mm}$ (.01") specified.
2. Bending < Length : 2%



Part Number

OPD-M357A0F6
(With Backup Data Signal Input)

Supply Voltage=4.5-5.5V
(IC materials)
Operation Current = 2mA
(R/G/B NO LOAD)

**IF=5mA
(mcd)
Min**

70
160
25

**IF=5mA
(mcd)
Max**

175
290
80

**Wavelength(nm)
 λ_d @ IF = 20mA**

622 R
527 G
467 B

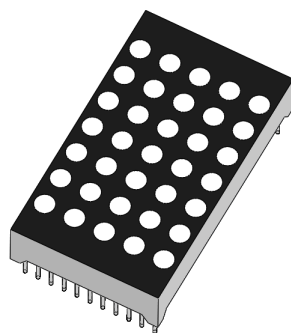
The single wire data transfer protocol supports 24-bit data for each LED RGB display data refresh. The IC receives 24-bit data and passes the remaining data to next LED. The 24-bit data consist of red, green and blue data, each with 8-bit width, and are transferred with **MSB first**.

R8 R7 R6 R5 R4 R3 R2 R1 R0
G8 G7 G6 G5 G4 G3 G2 G1 G0
B8 B7 B6 B5 B4 B3 B2 B1 B0

The transferred data are recognized based on the pulse widths received by the IC. A low bit 0 is represented by a 0.3us high pulse followed by a 0.9us low pulse. A high bit 1 is represented by a 0.9us high pulse followed by a 0.3us low pulse.



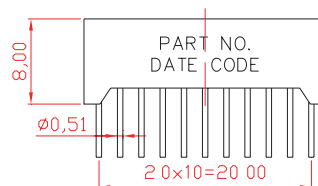
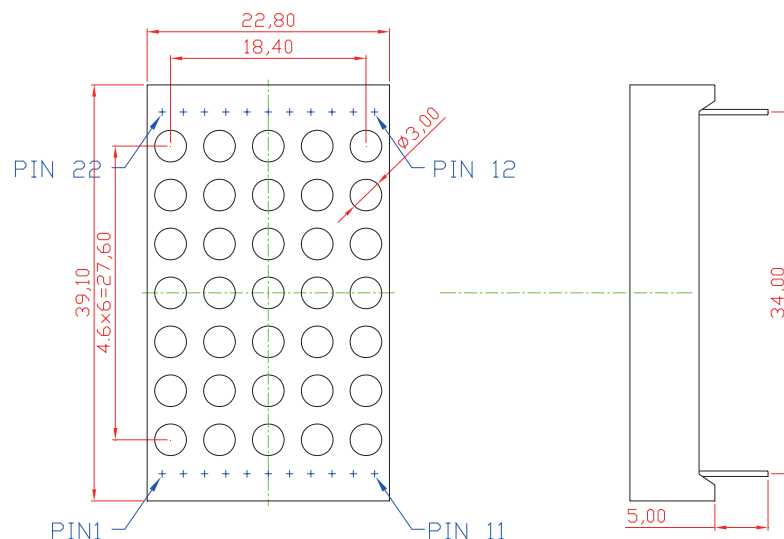
Package Dimension / Internal Circuit



5x7 Dot matrix display



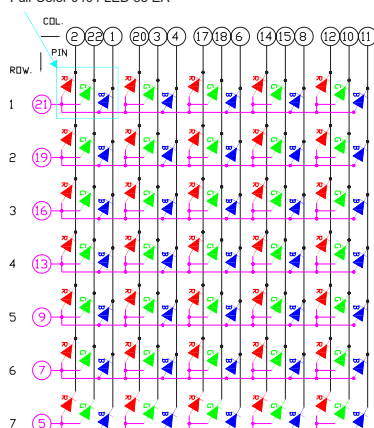
Inquiry



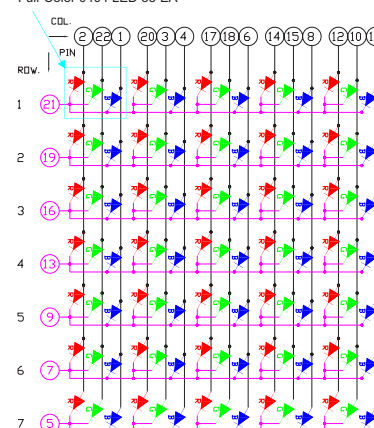
NOTE:

1. Dimension in millimeters (inches), And tolerances are $\pm 0.25\text{mm}$ (.01") specified.
2. Bending < Length : 2%

ANODE ROW, CATHODE COLUMN,
Full-Color 0404 LED 35 EA



CATHODE ROW, ANODE COLUMN,
Full-Color 0404 LED 35 EA



Part Number

IF = 20 mA

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

Wavelength(nm)
 λ_d @ IF = 20mA

OPD-M357A0F1A

1.9 13
2.5 17
2.5 3

620 R
533 G
470 B

OPD-M357A0F1C

1.9 13
2.5 17
2.5 3

620 R
533 G
470 B







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