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SMD DISPLAY.



The Perfect Supplier for
LED Products

Taiwan Professional LED Manufacturer

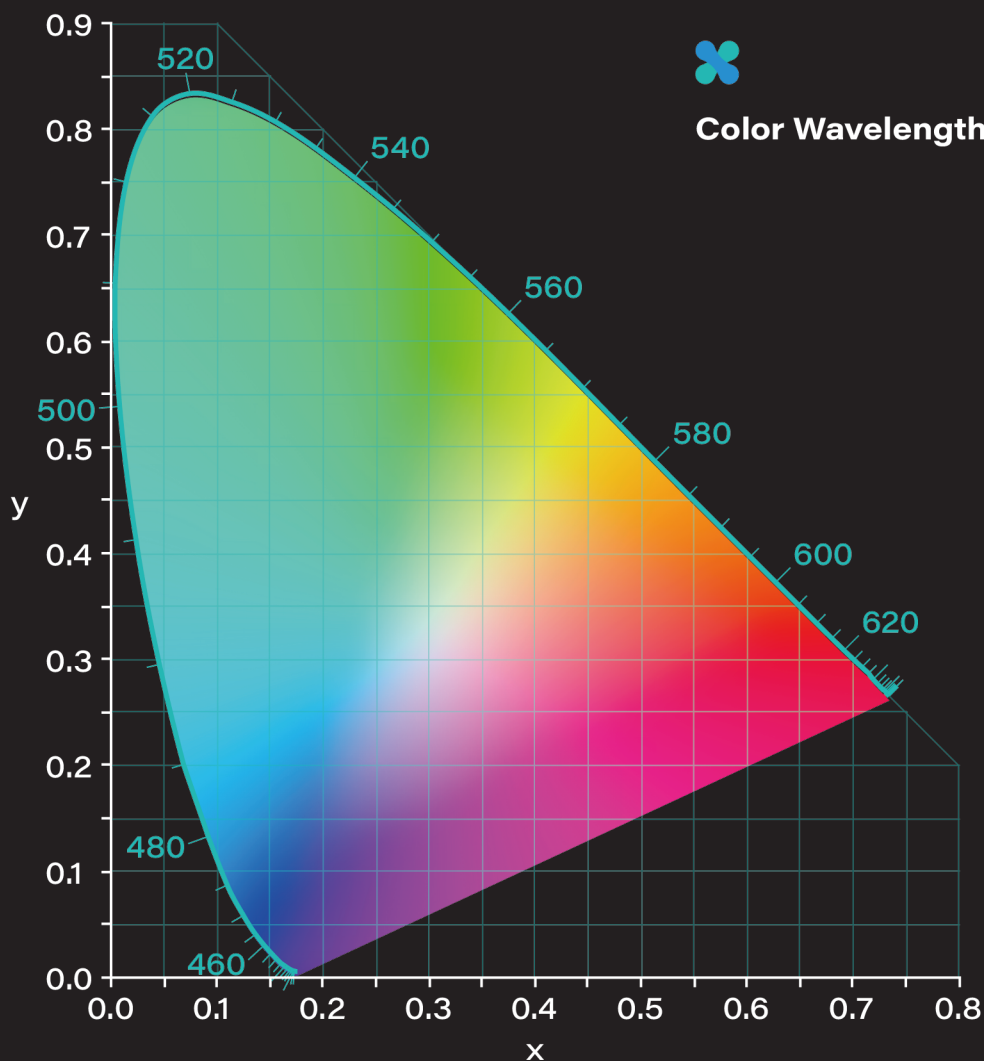
Opto Plus LED Corp. is a professional LED manufacturer in Taiwan. We can provide you one stop, total solution for all LEDs application, no matter from LED product design to complicate LED modules design.

CIE Chromaticity Diagram

CIE 1931 XYZ

CIE 1931 Color Space

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

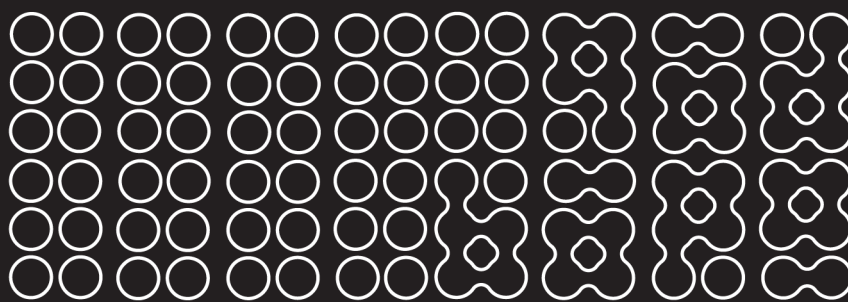


Color Wavelength & Color Temperature.

CIE 1931 Chromaticity Diagram

PART NUMBER SYSTEM

Part Number **OPS-D3910SB-GW**



OPS-D3910SB-GW

Surface Mount
Device Display

SMD 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

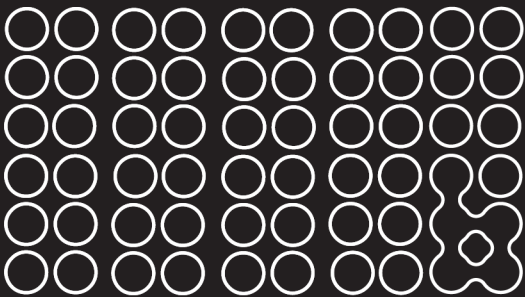
Q=Quadruple Digits

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

M=Matrix

PART NUMBER SYSTEM

Part Number **OPS-D3910SB-GW**



Face Color

G=Gray face

B=Black face

OPS-D3910SB-GW



Reflector Code

REF Code

White Segment

Emitting color

Example:

SYG=570nm Yellow Green

SB=470nm Blue

SE=625nm Red

LR=640nm Red

Common Anode / Cathode

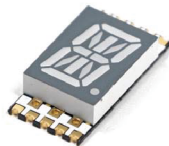
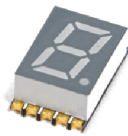
Anode=Even number

Cathode=Odd number



Digit 7-Segment SMD Display

- 14 Single Digit 7-Segment SMD Display
- 18 Dual Digit 7-Segment SMD Display
- 23 Triple Digit 7-Segment SMD Display
- 27 Quadruple Digit 7-Segment SMD Display
- 32 Quint(Five) Digit 7-Segment SMD Display



Alphanumeric SMD Display

- 33 Alphanumeric SMD Display

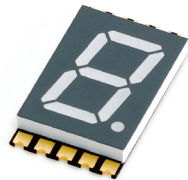
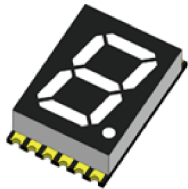
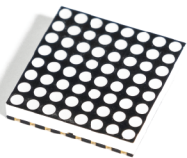
Dot Matrix SMD Display

35 Dot Matrix SMD Display



RGB SMD Display

36 RGB SMD Display



Super Thin SMD Display

- 43 Single Digit Super Thin SMD Display
- 46 Dual Digit Super Thin SMD Display
- 49 Triple Digit Super Thin SMD Display
- 53 Quadruple Super Thin Digit SMD Display
- 55 Bar Graph Super Thin SMD Display

CONTENTS



APPLICATION NOTES

for SMD LED Display



Please check the newest and complete application for your application.

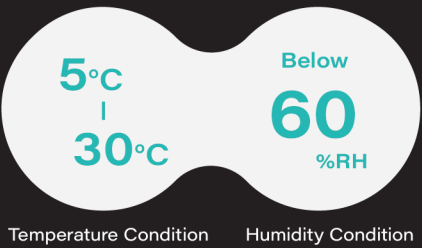
● Scope

SMD 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:

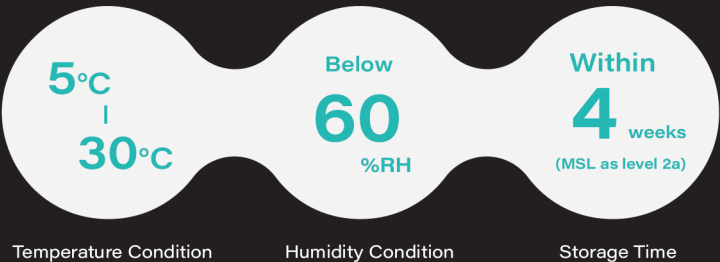
SMD LED Display



If soldering pads exposure to open in air under long-term, it is easy to cause pad oxidized and poor solder. Therefore opened but unused parts must be stored in Moisture-Proof Cabinet. Suagest to store unused parts in Moisture-Proof Cabinet.

When the package is opened, the storage condition:

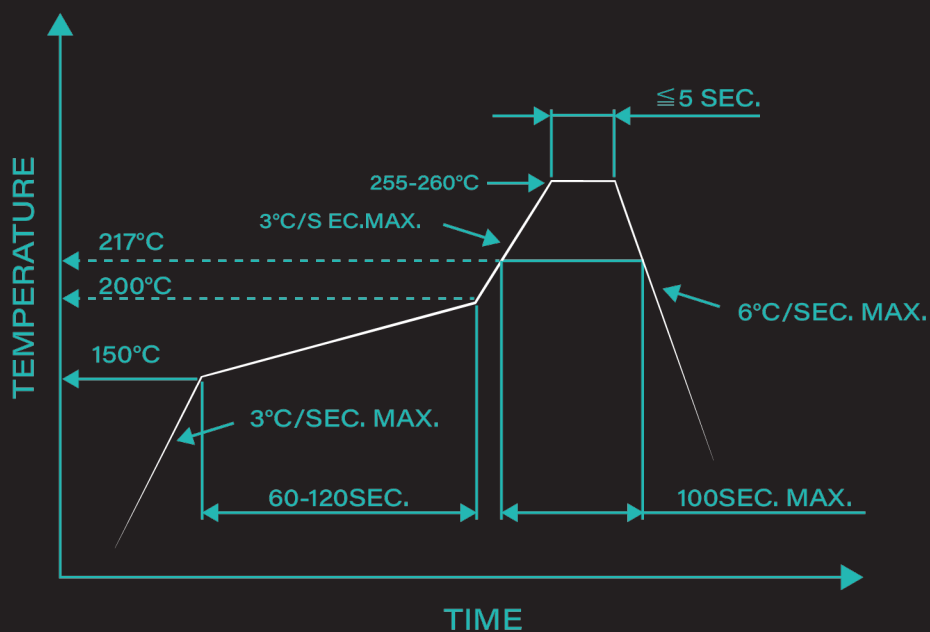
SMD LED Display



Soldering

- We recommend the reflow temperature 245°C ($\pm 5^{\circ}\text{C}$).
- The maximum soldering temperature should be limited to 260°C .
- Number of reflow process shall be 2 times or less.

All SMD LED Display should refer to Data Sheet



Milestone

2008 Dec.

**Opto Plus LED Corp.
Established**



Jan.

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

Jun.

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

Dec.

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

2009

2010

2012

2015

2016

2017

Mar.

Set up mass production line in Taiwan.

Nov.

First time to attend Electronica Munich in Germany.

Jul.

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

Oct.

First time to attend TAITRONIC Taipei in Nangang Exhibition Center.

Dec.

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



May

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

Dec.

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

Jan.

OPTO PLUS LED CORP.
Web site update.

Apr.

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

Jan.

Develop and publish Capacitive Display included Touch Pad only.

2018

2019

2020

2022

2023

2024

Jun.

OPTO PLUS
renew Catalogue
and product line.

Jan.

Develop Switch Built-in LED Display with customer.

Nov.

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

Dec.

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

Nov.

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



Cultivating Light Innovation for a Radiant Future

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

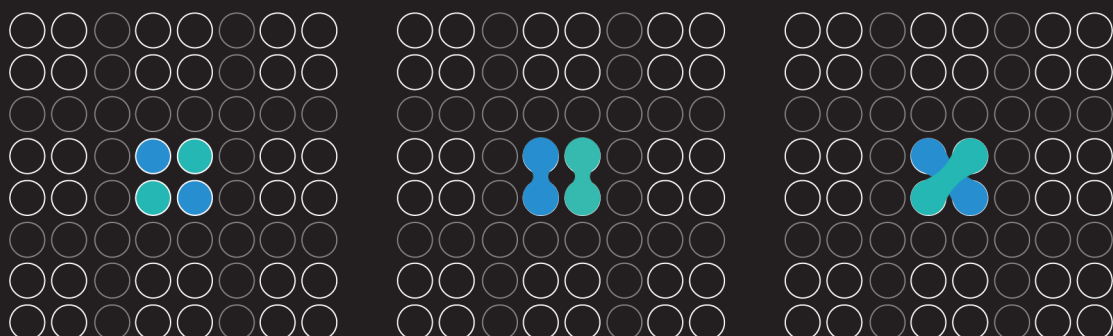


OPTO PLUS LED CORP.

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

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

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



Factory Introduction

Precision with Humanity, Critical Quality Control

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



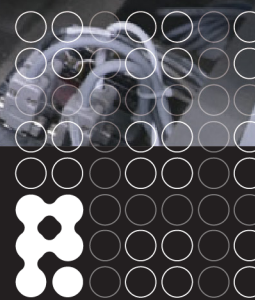
SMT Production Lines



Dedicated to Perfect Display Uniformity

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





COB Production Lines

The key to LED conductivity and luminescence.

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



Quality Control

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



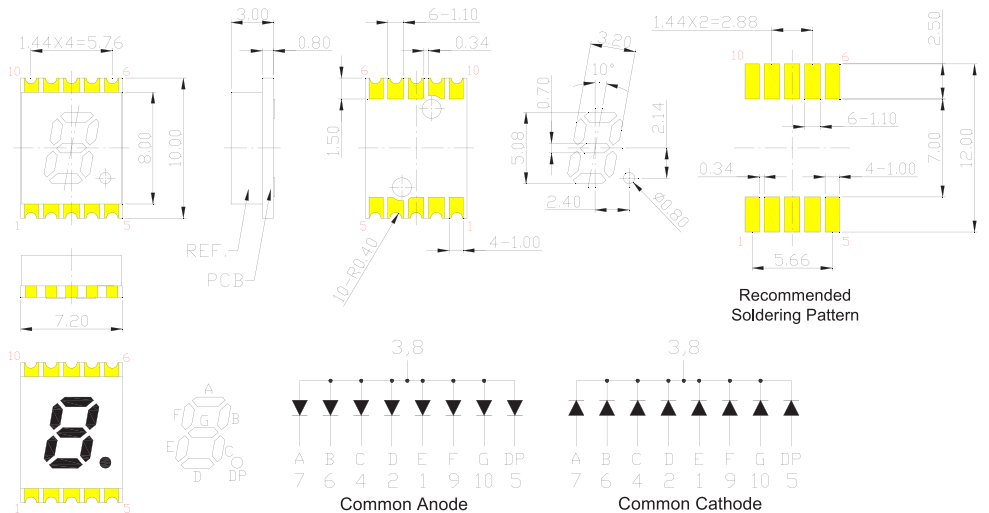
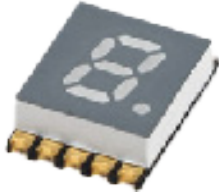
Factory Environment



Digit 7-Segment SMD Display



Package Dimension / Internal Circuit



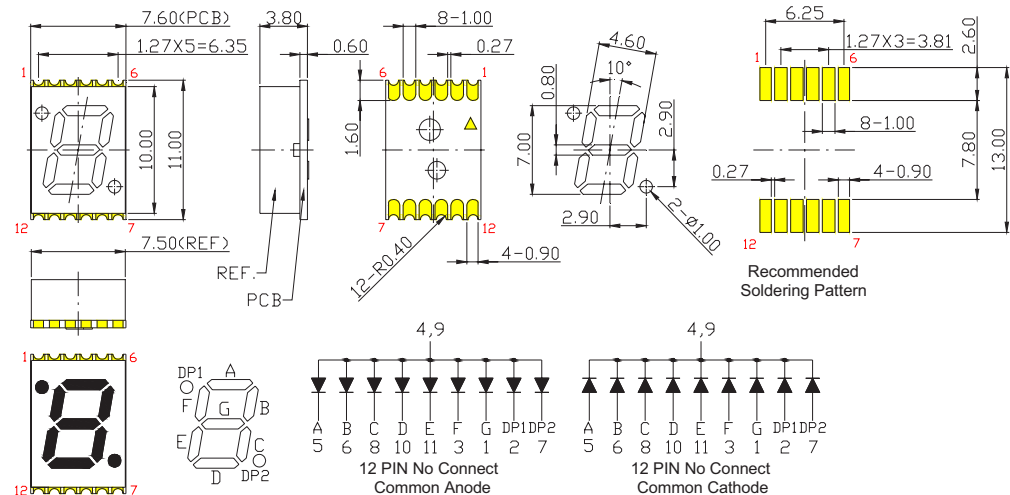
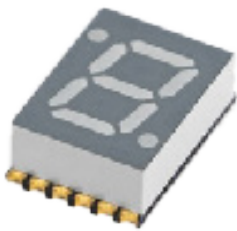
0.20" Single digits display



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.		
OPS-S2010W3	OPS-S2011W3	3.0	130	-	InGaN
OPS-S2010SB	OPS-S2011SB	3.0	30	470	InGaN
OPS-S2010SPG	OPS-S2011SPG	3.0	220	525	InGaN
OPS-S2010SYG	OPS-S2011SYG	2.1	8	570	AlGaInP
OPS-S2010SY	OPS-S2011SY	2.1	25	590	AlGaInP
OPS-S2010SA	OPS-S2011SA	2.0	25	610	AlGaInP
OPS-S2010SE	OPS-S2011SE	2.1	30	625	AlGaInP
OPS-S2010LR	OPS-S2011LR	2.1	5	640	AlGaInP

Package Dimension / Internal Circuit



0.28" Single digits display



Inquiry

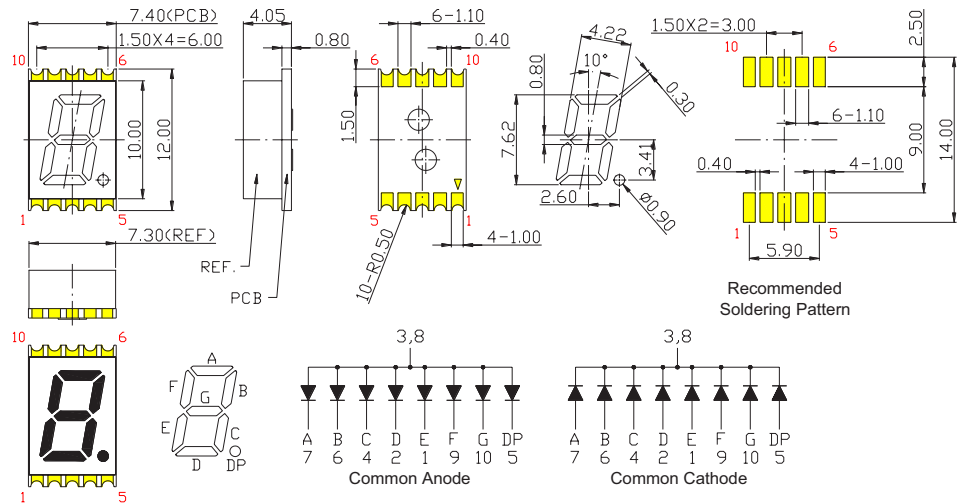
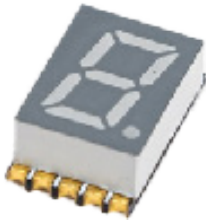
Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.		
OPS-S2812W	OPS-S2811W	3.0	120	-	InGaN
OPS-S2812SB	OPS-S2811SB	3.0	30	470	InGaN
OPS-S2812SPG	OPS-S2811SPG	3.0	220	525	InGaN
OPS-S2812SYG	OPS-S2811SYG	2.1	8	570	AlGaInP
OPS-S2812SY	OPS-S2811SY	2.1	25	590	AlGaInP
OPS-S2812SA	OPS-S2811SA	2.0	25	610	AlGaInP
OPS-S2812SE	OPS-S2811SE	2.1	30	625	AlGaInP
OPS-S2812LR	OPS-S2811LR	2.1	5	640	AlGaInP



Digit 7-Segment SMD Display



Package Dimension / Internal Circuit



0.30" Single digits display



Inquiry

Part Number

Common Anode

Common Cathode

IF = 20 mA

V_F(V)
Typ.

I_V(mcd)
Typ.

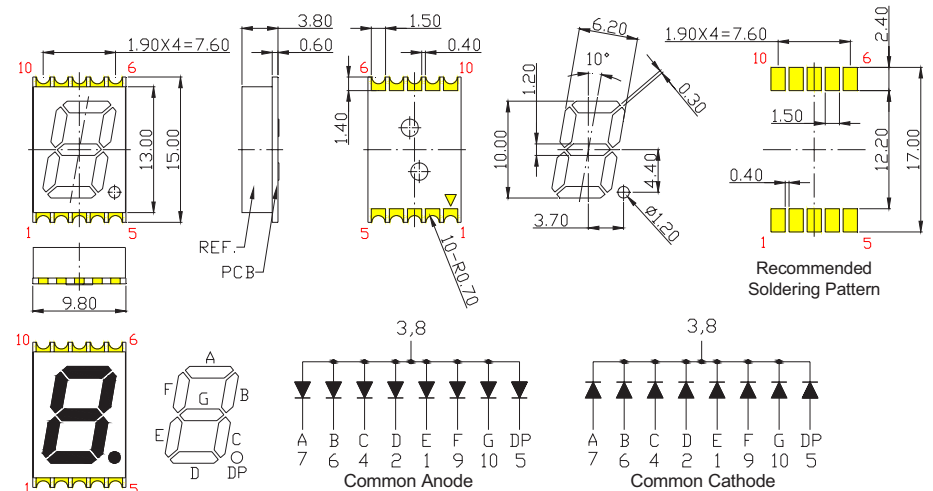
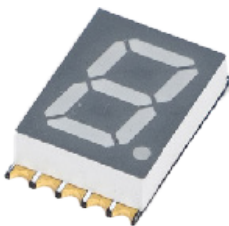
Wavelength(nm)
λ_d @ IF = 20mA
(Dice materials)

OPS-S3010W3	OPS-S3011W3
OPS-S3010SB	OPS-S3011SB
OPS-S3010SPG	OPS-S3011SPG
OPS-S3010SYG	OPS-S3011SYG
OPS-S3010SY	OPS-S3011SY
OPS-S3010SA	OPS-S3011SA
OPS-S3010SE	OPS-S3011SE
OPS-S3010LR	OPS-S3011LR

3.0	110
3.0	25
3.0	200
2.1	7
2.1	20
2.0	20
2.1	25
2.1	4

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

Package Dimension / Internal Circuit



0.39" Single 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)

OPS-S3910W	OPS-S3911W
OPS-S3910SB	OPS-S3911SB
OPS-S3910SPG	OPS-S3911SPG
OPS-S3910SYG	OPS-S3911SYG
OPS-S3910SY	OPS-S3911SY
OPS-S3910SA	OPS-S3911SA
OPS-S3910SE	OPS-S3911SE
OPS-S3910LR	OPS-S3911LR

3.0	230
3.0	80
3.0	420
2.1	15
2.1	60
2.0	60
2.1	80
2.1	10

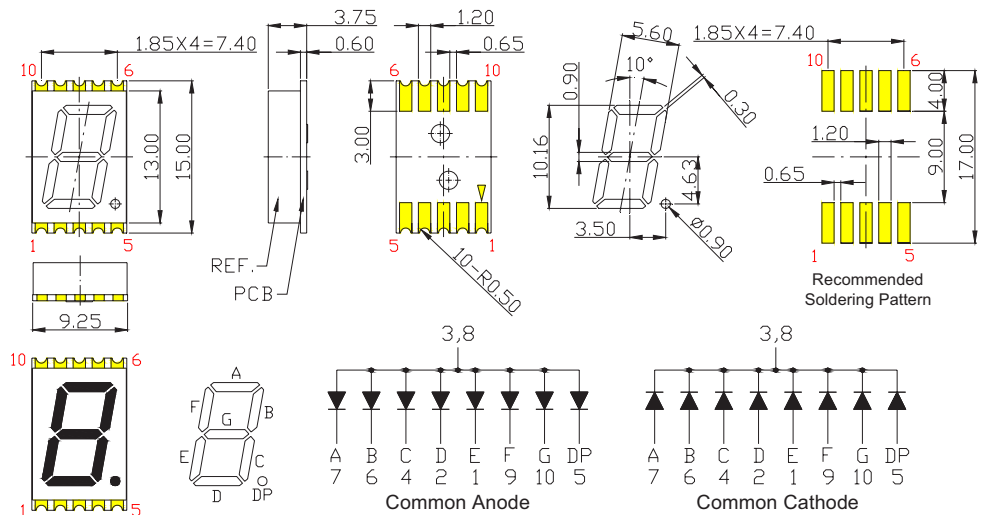
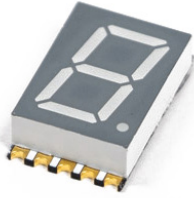
-	InGaN
470	InGaN
525	InGaN
570	AlGaInP
590	AlGaInP
610	AlGaInP
625	AlGaInP
640	AlGaInP



Digit 7-Segment SMD Display



Package Dimension / Internal Circuit



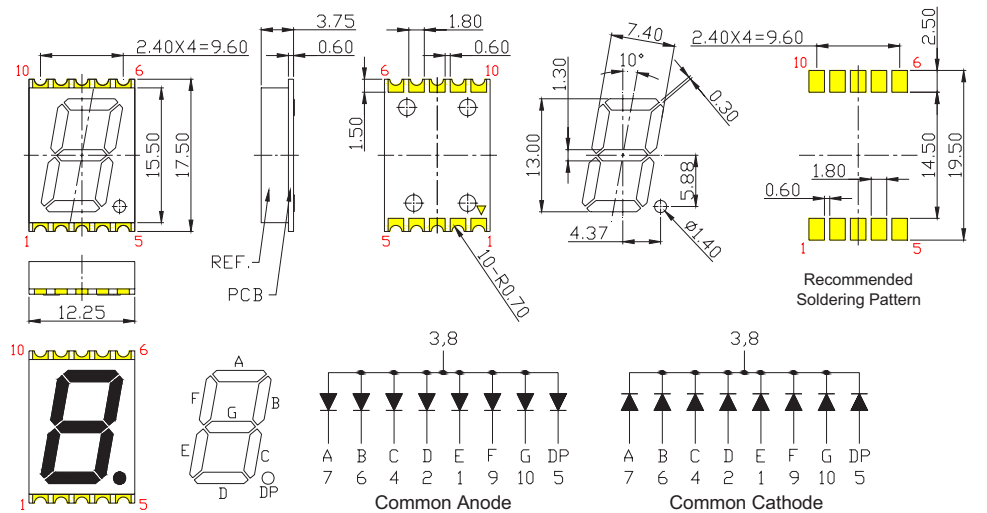
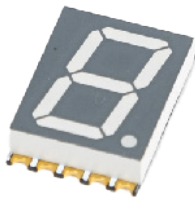
0.40" Single digits display



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.	
OPS-S4010W	OPS-S4011W	3.0	130	- InGaN
OPS-S4010SB	OPS-S4011SB	3.0	30	470 InGaN
OPS-S4010SPG	OPS-S4011SPG	3.0	250	525 InGaN
OPS-S4010SYG	OPS-S4011SYG	2.1	8	570 AlGaInP
OPS-S4010SY	OPS-S4011SY	2.1	25	590 AlGaInP
OPS-S4010SA	OPS-S4011SA	2.0	25	610 AlGaInP
OPS-S4010SE	OPS-S4011SE	2.1	30	625 AlGaInP
OPS-S4010LR	OPS-S4011LR	2.1	5	640 AlGaInP

Package Dimension / Internal Circuit



0.51" Single digits display



Inquiry

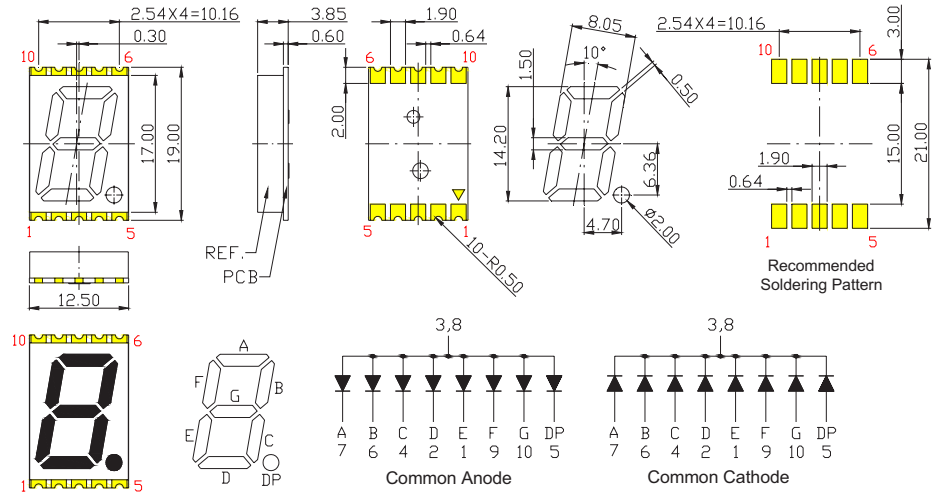
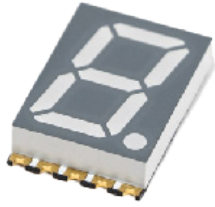
Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.	
OPS-S5110W	OPS-S5111W	3.0	170	- InGaN
OPS-S5110SB	OPS-S5111SB	3.0	70	470 InGaN
OPS-S5110SPG	OPS-S5111SPG	3.0	350	525 InGaN
OPS-S5110SYG	OPS-S5111SYG	2.1	12	570 AlGaInP
OPS-S5110SY	OPS-S5111SY	2.1	50	590 AlGaInP
OPS-S5110SA	OPS-S5111SA	2.0	50	610 AlGaInP
OPS-S5110SE	OPS-S5111SE	2.1	70	625 AlGaInP
OPS-S5110LR	OPS-S5111LR	2.1	7	640 AlGaInP



Digit 7-Segment SMD Display



Package Dimension / Internal Circuit



0.56" Single digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPS-S5620W	OPS-S5621W
OPS-S5620SB	OPS-S5621SB
OPS-S5620SPG	OPS-S5621SPG
OPS-S5620SYG	OPS-S5621SYG
OPS-S5620SY	OPS-S5621SY
OPS-S5620SA	OPS-S5621SA
OPS-S5620SE	OPS-S5621SE
OPS-S5620LR	OPS-S5621LR

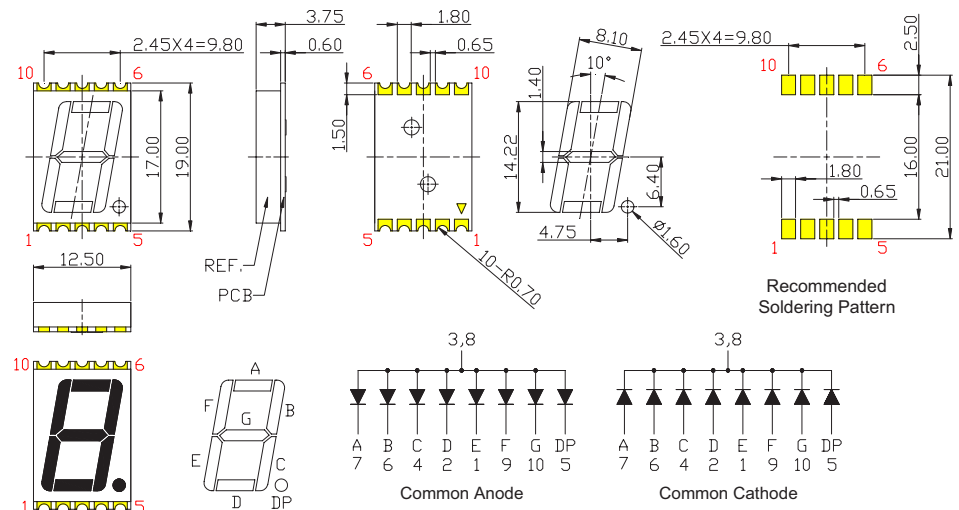
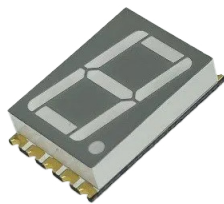
IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	170
3.0	70
3.0	350
2.1	12
2.1	50
2.0	50
2.1	70
2.1	7

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" Single digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPS-S5640W	OPS-S5641W
OPS-S5640SB	OPS-S5641SB
OPS-S5640SPG	OPS-S5641SPG
OPS-S5640SYG	OPS-S5641SYG
OPS-S5640SY	OPS-S5641SY
OPS-S5640SA	OPS-S5641SA
OPS-S5640SE	OPS-S5641SE
OPS-S5640LR	OPS-S5641LR

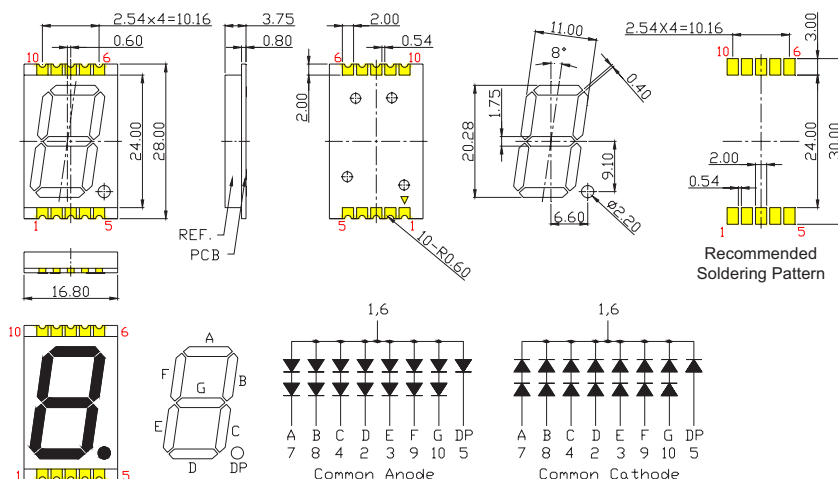
IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	170
3.0	70
3.0	350
2.1	12
2.1	50
2.0	50
2.1	70
2.1	7

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

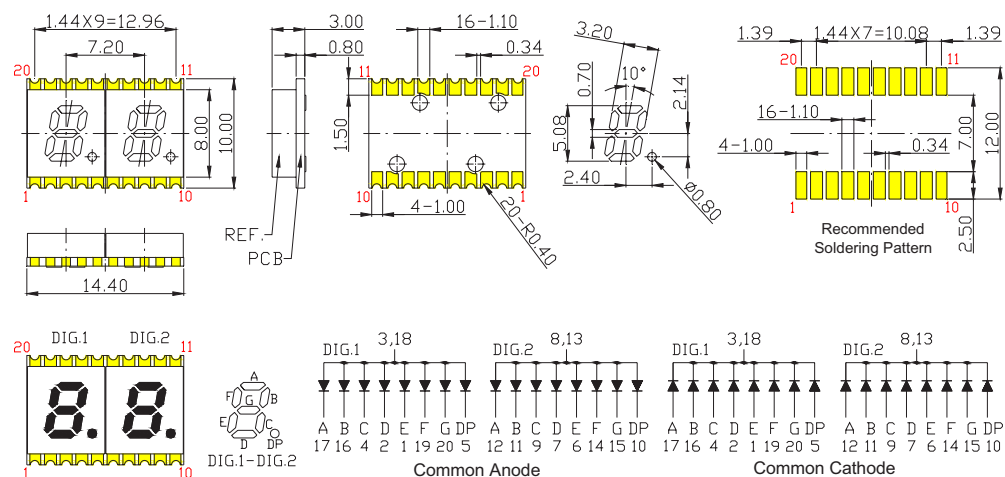
-	InGaN
470	InGaN
525	InGaN
570	AlGaInP
590	AlGaInP
610	AlGaInP
625	AlGaInP
640	AlGaInP

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.	
OPS-S8010W	OPS-S8011W	3.0	340	- InGaN
OPS-S8010SB	OPS-S8011SB	3.0	120	470 InGaN
OPS-S8010SPG	OPS-S8011SPG	3.0	650	525 InGaN
OPS-S8010SYG	OPS-S8011SYG	2.1	23	570 AlGaInP
OPS-S8010SY	OPS-S8011SY	2.1	85	590 AlGaInP
OPS-S8010SA	OPS-S8011SA	2.0	85	610 AlGaInP
OPS-S8010SE	OPS-S8011SE	2.1	120	625 AlGaInP
OPS-S8010LR	OPS-S8011LR	2.1	15	640 AlGaInP

Inquiry



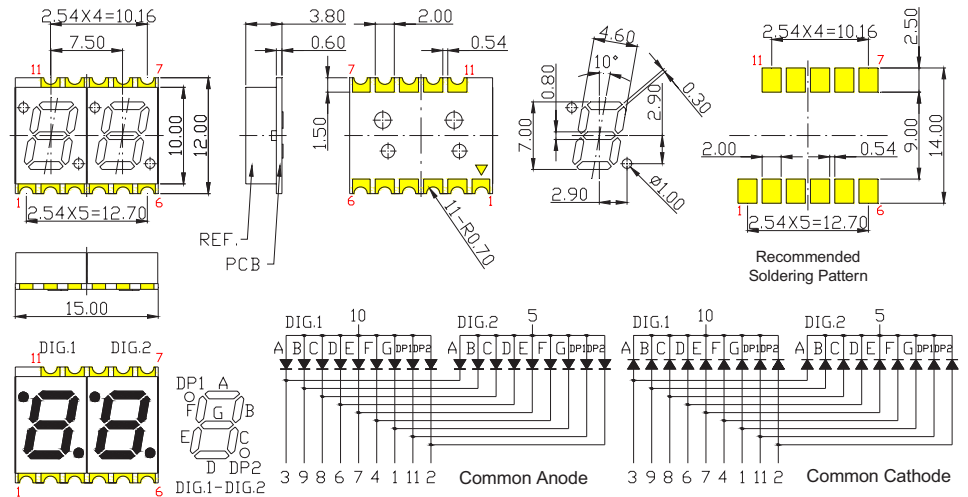
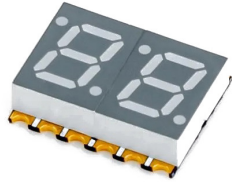
Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V _f (V) Typ.	I _v (mcd) Typ.	
OPS-D2010W3	OPS-D2011W3	3.0	130	- InGaN
OPS-D2010SB	OPS-D2011SB	3.0	30	470 InGaN
OPS-D2010SPG	OPS-D2011SPG	3.0	220	525 InGaN
OPS-D2010SYG	OPS-D2011SYG	2.1	8	570 AlGaInP
OPS-D2010SY	OPS-D2011SY	2.1	25	590 AlGaInP
OPS-D2010SA	OPS-D2011SA	2.0	25	610 AlGaInP
OPS-D2010SE	OPS-D2011SE	2.1	30	625 AlGaInP
OPS-D2010LR	OPS-D2011LR	2.1	5	640 AlGaInP



Digit 7-Segment SMD Display



Package Dimension / Internal Circuit



0.28" Dual 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)

OPS-D2814W

OPS-D2813W

3.0

120

- InGaN

OPS-D2814SB

OPS-D2813SB

3.0

30

470 InGaN

OPS-D2814SPG

OPS-D2813SPG

3.0

220

525 InGaN

OPS-D2814SYG

OPS-D2813SYG

2.1

8

570 AlGaInP

OPS-D2814SY

OPS-D2813SY

2.1

25

590 AlGaInP

OPS-D2814SA

OPS-D2813SA

2.0

25

610 AlGaInP

OPS-D2814SE

OPS-D2813SE

2.1

30

625 AlGaInP

OPS-D2814LR

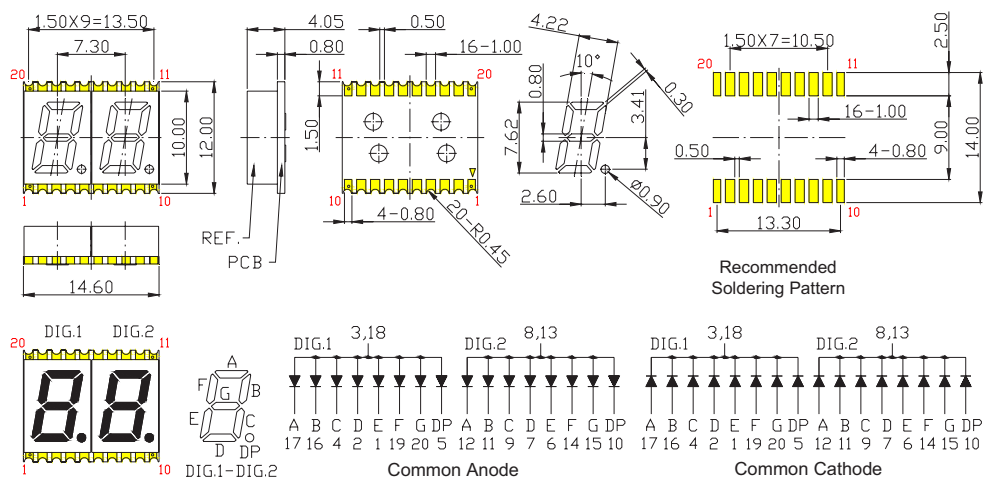
OPS-D2813LR

2.1

5

640 AlGaInP

Package Dimension / Internal Circuit



0.30" Dual 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)

OPS-D3010W3

OPS-D3011W3

3.0

110

- InGaN

OPS-D3010SB

OPS-D3011SB

3.0

25

470 InGaN

OPS-D3010SPG

OPS-D3011SPG

3.0

200

525 InGaN

OPS-D3010SYG

OPS-D3011SYG

2.1

7

570 AlGaInP

OPS-D3010SY

OPS-D3011SY

2.1

20

590 AlGaInP

OPS-D3010SA

OPS-D3011SA

2.0

20

610 AlGaInP

OPS-D3010SE

OPS-D3011SE

2.1

25

625 AlGaInP

OPS-D3010LR

OPS-D3011LR

2.1

4

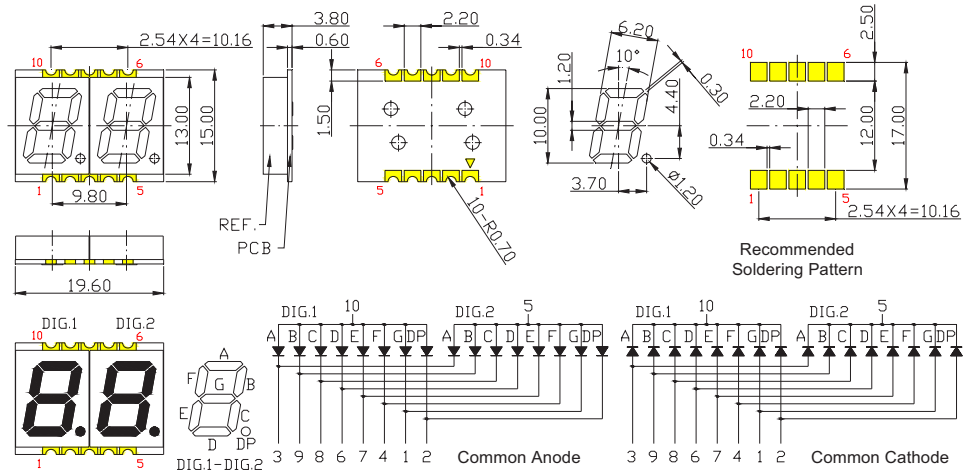
640 AlGaInP



Digit 7-Segment SMD Display



Package Dimension / Internal Circuit



0.39" Dual 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)

OPS-D3910W

OPS-D3911W

3.0

230

- InGaN

OPS-D3910SB

OPS-D3911SB

3.0

80

470 InGaN

OPS-D3910SPG

OPS-D3911SPG

3.0

420

525 InGaN

OPS-D3910SYG

OPS-D3911SYG

2.1

15

570 AlGaInP

OPS-D3910SY

OPS-D3911SY

2.1

60

590 AlGaInP

OPS-D3910SA

OPS-D3911SA

2.0

60

610 AlGaInP

OPS-D3910SE

OPS-D3911SE

2.1

80

625 AlGaInP

OPS-D3910LR

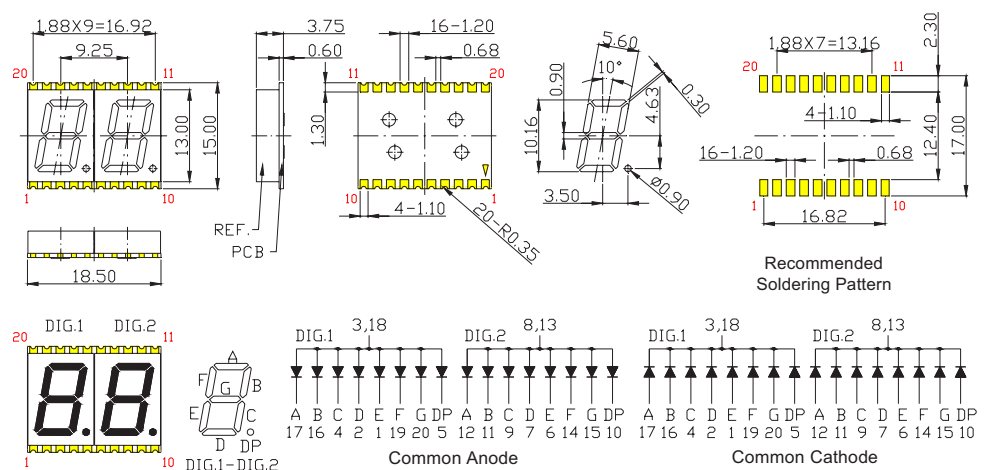
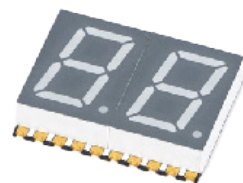
OPS-D3911LR

2.1

10

640 AlGaInP

Package Dimension / Internal Circuit



0.40" Dual 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)

OPS-D4014W

OPS-D4013W

3.0

130

- InGaN

OPS-D4014SB

OPS-D4013SB

3.0

30

470 InGaN

OPS-D4014SPG

OPS-D4013SPG

3.0

250

525 InGaN

OPS-D4014SYG

OPS-D4013SYG

2.1

8

570 AlGaInP

OPS-D4014SY

OPS-D4013SY

2.1

25

590 AlGaInP

OPS-D4014SA

OPS-D4013SA

2.0

25

610 AlGaInP

OPS-D4014SE

OPS-D4013SE

2.1

30

625 AlGaInP

OPS-D4014LR

OPS-D4013LR

2.1

5

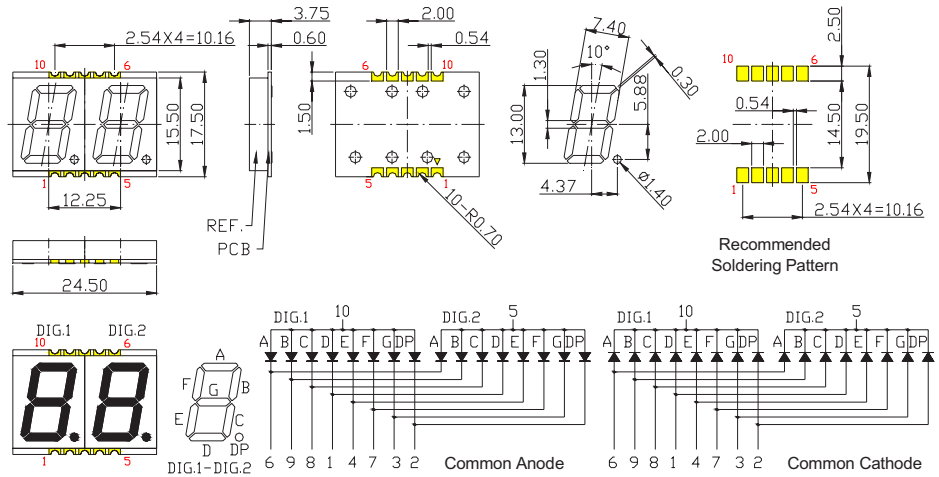
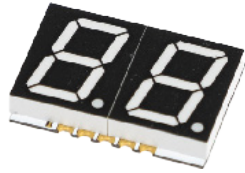
640 AlGaInP



Digit 7-Segment SMD Display



Package Dimension / Internal Circuit



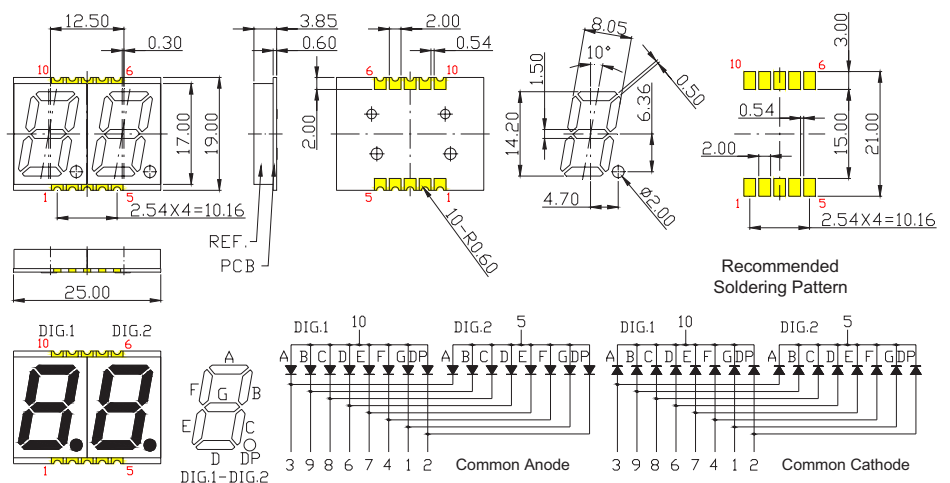
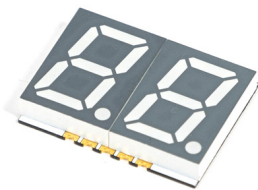
0.51" Dual digits display



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.	
OPS-D5110W	OPS-D5111W	3.0	170	- InGaN
OPS-D5110SB	OPS-D5111SB	3.0	70	470 InGaN
OPS-D5110SPG	OPS-D5111SPG	3.0	350	525 InGaN
OPS-D5110SYG	OPS-D5111SYG	2.1	12	570 AlGaInP
OPS-D5110SY	OPS-D5111SY	2.1	50	590 AlGaInP
OPS-D5110SA	OPS-D5111SA	2.0	50	610 AlGaInP
OPS-D5110SE	OPS-D5111SE	2.1	70	625 AlGaInP
OPS-D5110LR	OPS-D5111LR	2.1	7	640 AlGaInP

Package Dimension / Internal Circuit



0.56" Dual digits display



Inquiry

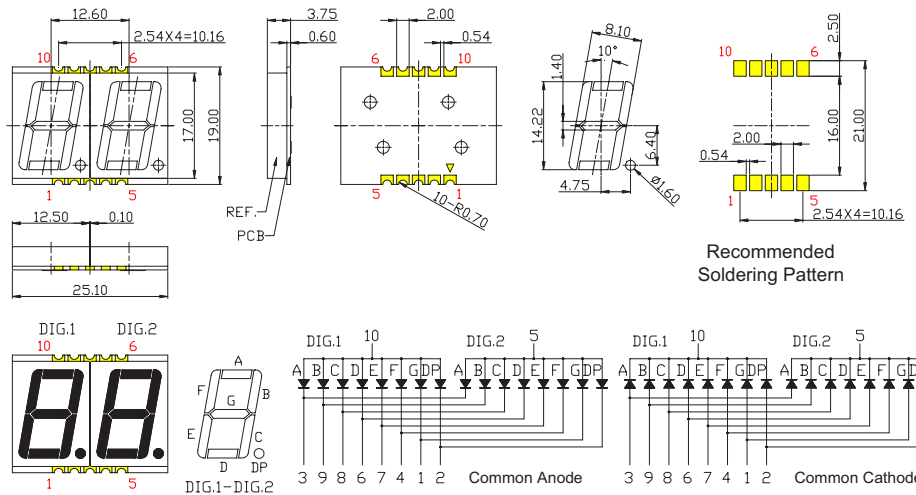
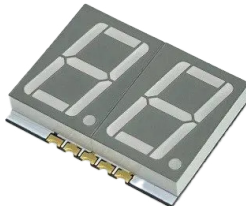
Part Number		IF = 20 mA		Wavelength(nm) λ_d @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V_F (V) Typ.	I_V (mcd) Typ.	
OPS-D5620W	OPS-D5621W	3.0	170	- InGaN
OPS-D5620SB	OPS-D5621SB	3.0	70	470 InGaN
OPS-D5620SPG	OPS-D5621SPG	3.0	350	525 InGaN
OPS-D5620SYG	OPS-D5621SYG	2.1	12	570 AlGaInP
OPS-D5620SY	OPS-D5621SY	2.1	50	590 AlGaInP
OPS-D5620SA	OPS-D5621SA	2.0	50	610 AlGaInP
OPS-D5620SE	OPS-D5621SE	2.1	70	625 AlGaInP
OPS-D5620LR	OPS-D5621LR	2.1	7	640 AlGaInP



Digit 7-Segment SMD Display



Package Dimension / Internal Circuit



0.56" Dual digits display



Inquiry

Part Number

Common Anode

Common Cathode

IF = 20 mA

V_F(V)
Typ.

I_V(mcd)
Typ.

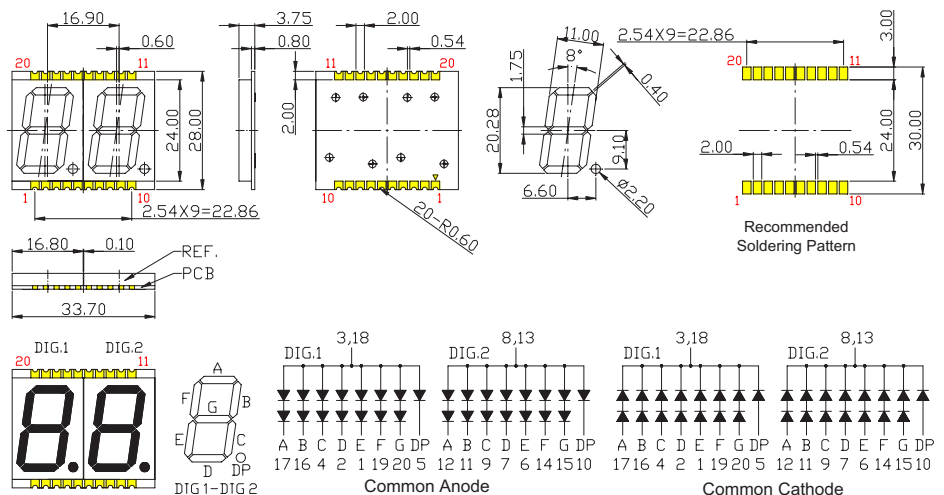
Wavelength(nm)
λ_d @ IF = 20mA
(Dice materials)

OPS-D5640W	OPS-D5641W
OPS-D5640SB	OPS-D5641SB
OPS-D5640SPG	OPS-D5641SPG
OPS-D5640SYG	OPS-D5641SYG
OPS-D5640SY	OPS-D5641SY
OPS-D5640SA	OPS-D5641SA
OPS-D5640SE	OPS-D5641SE
OPS-D5640LR	OPS-D5641LR

3.0	170
3.0	70
3.0	350
2.1	12
2.1	50
2.0	50
2.1	70
2.1	7

-	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

IF = 20 mA

V_F(V)
Typ.

I_V(mcd)
Typ.

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

OPS-D8010W	OPS-D8011W
OPS-D8010SB	OPS-D8011SB
OPS-D8010SPG	OPS-D8011SPG
OPS-D8010SYG	OPS-D8011SYG
OPS-D8010SY	OPS-D8011SY
OPS-D8010SA	OPS-D8011SA
OPS-D8010SE	OPS-D8011SE
OPS-D8010LR	OPS-D8011LR

3.0	340
3.0	120
3.0	650
2.1	23
2.1	85
2.0	85
2.1	120
2.1	15

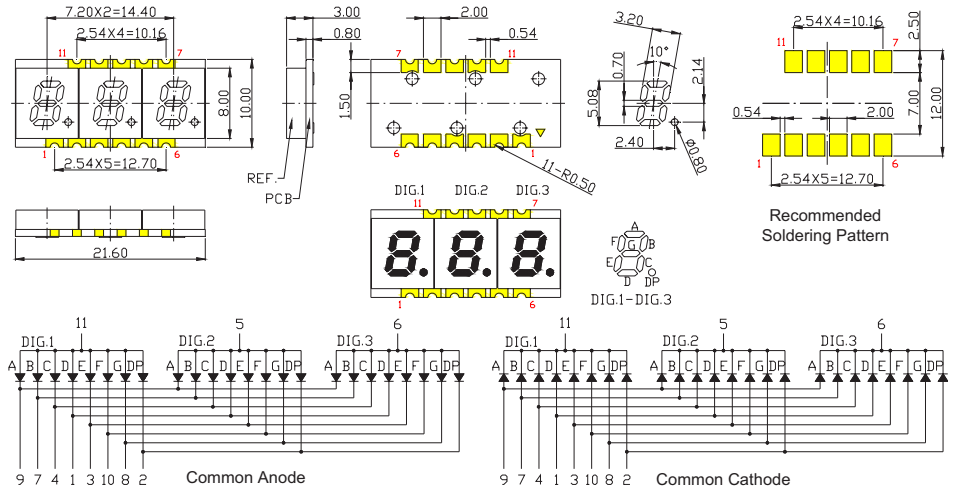
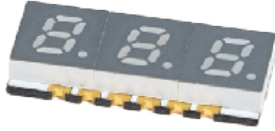
-	InGaN
470	InGaN
525	InGaN
570	AlGaInP
590	AlGaInP
610	AlGaInP
625	AlGaInP
640	AlGaInP



Digit 7-Segment SMD Display



Package Dimension / Internal Circuit



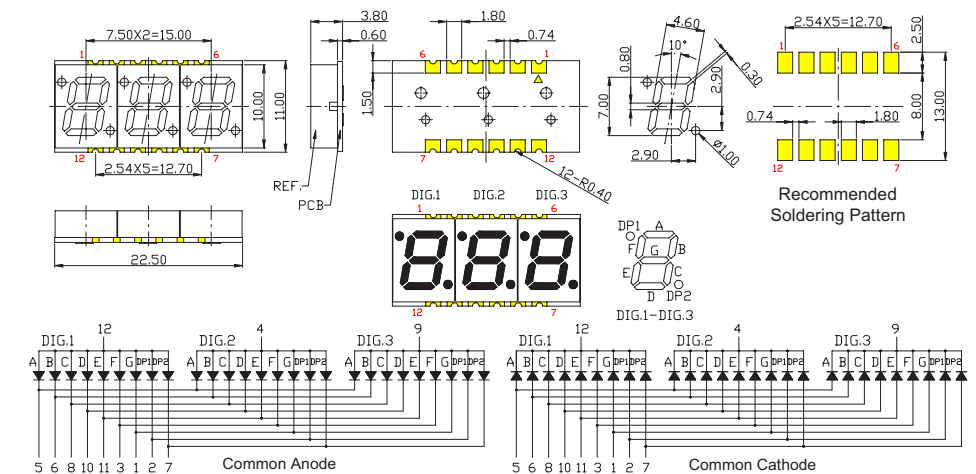
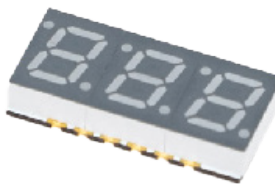
0.2" Triple digits display



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.		
OPS-T2010W3	OPS-T2011W3	3.0	130	-	InGaN
OPS-T2010SB	OPS-T2011SB	3.0	30	470	InGaN
OPS-T2010SPG	OPS-T2011SPG	3.0	220	525	InGaN
OPS-T2010SYG	OPS-T2011SYG	2.1	8	570	AlGaInP
OPS-T2010SY	OPS-T2011SY	2.1	25	590	AlGaInP
OPS-T2010SA	OPS-T2011SA	2.0	25	610	AlGaInP
OPS-T2010SE	OPS-T2011SE	2.1	30	625	AlGaInP
OPS-T2010LR	OPS-T2011LR	2.1	5	640	AlGaInP

Package Dimension / Internal Circuit



0.28" Triple digits display



Inquiry

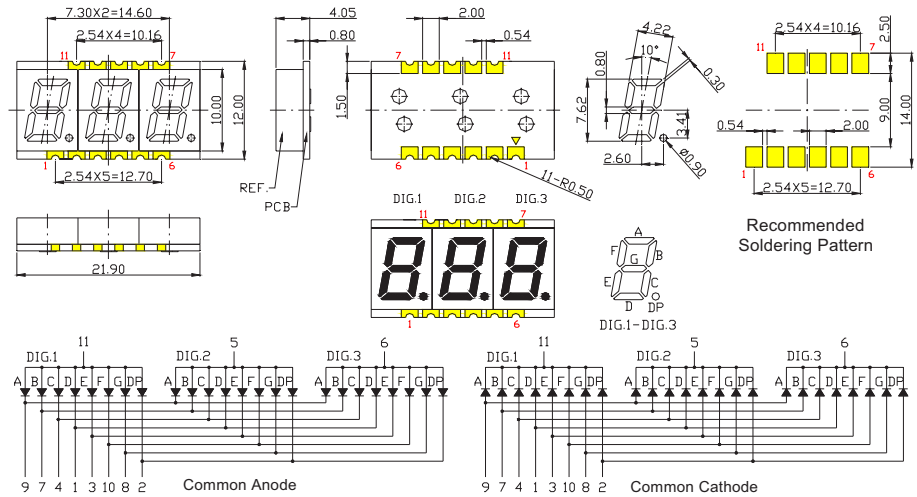
Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.		
OPS-T2812W	OPS-T2811W	3.0	120	-	InGaN
OPS-T2812SB	OPS-T2811SB	3.0	30	470	InGaN
OPS-T2812SPG	OPS-T2811SPG	3.0	220	525	InGaN
OPS-T2812SYG	OPS-T2811SYG	2.1	8	570	AlGaInP
OPS-T2812SY	OPS-T2811SY	2.1	25	590	AlGaInP
OPS-T2812SA	OPS-T2811SA	2.0	25	610	AlGaInP
OPS-T2812SE	OPS-T2811SE	2.1	30	625	AlGaInP
OPS-T2812LR	OPS-T2811LR	2.1	5	640	AlGaInP



Digit 7-Segment SMD Display



Package Dimension / Internal Circuit



0.3" Triple digits display



Inquiry

Part Number

Common Anode

Common Cathode

IF = 20 mA

V_F(V)
Typ.

I_V(mcd)
Typ.

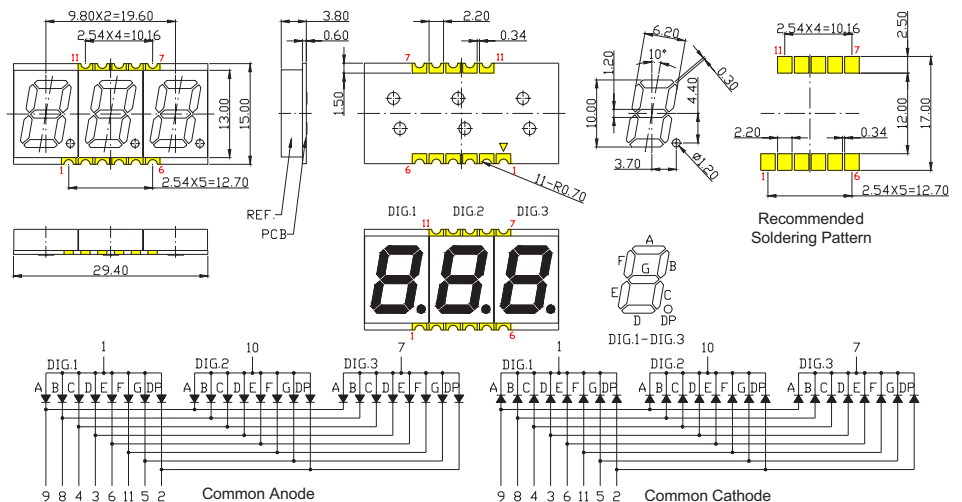
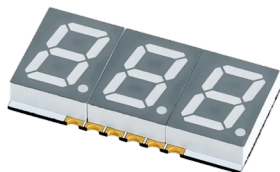
Wavelength(nm) λ_d @ IF = 20mA (Dice materials)

OPS-T3010W3	OPS-T3011W3
OPS-T3010SB	OPS-T3011SB
OPS-T3010SPG	OPS-T3011SPG
OPS-T3010SYG	OPS-T3011SYG
OPS-T3010SY	OPS-T3011SY
OPS-T3010SA	OPS-T3011SA
OPS-T3010SE	OPS-T3011SE
OPS-T3010LR	OPS-T3011LR

3.0	110
3.0	25
3.0	200
2.1	7
2.1	20
2.0	20
2.1	25
2.1	4

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

Package Dimension / Internal Circuit



0.39" 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)

OPS-T3914W	OPS-T3915W
OPS-T3914SB	OPS-T3915SB
OPS-T3914SPG	OPS-T3915SPG
OPS-T3914SYG	OPS-T3915SYG
OPS-T3914SY	OPS-T3915SY
OPS-T3914SA	OPS-T3915SA
OPS-T3914SE	OPS-T3915SE
OPS-T3914LR	OPS-T3915LR

3.0	230
3.0	80
3.0	420
2.1	15
2.1	60
2.0	60
2.1	80
2.1	10

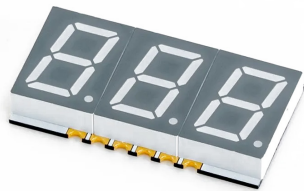
-	InGaN
470	InGaN
525	InGaN
570	AlGaInP
590	AlGaInP
610	AlGaInP
625	AlGaInP
640	AlGaInP



Digit 7-Segment SMD Display



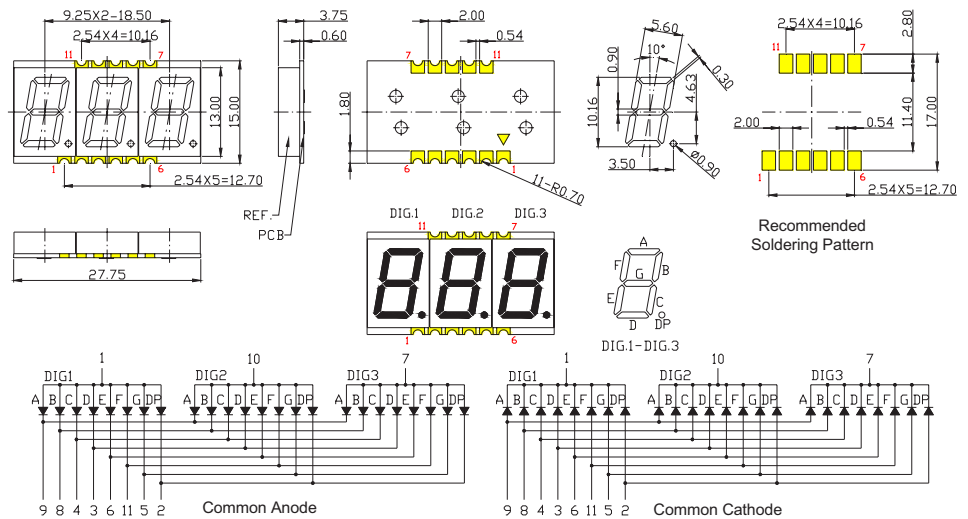
Package Dimension / Internal Circuit



0.4" Triple digits display



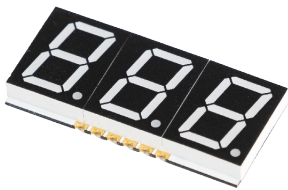
Inquiry



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)
OPS-T4016W	OPS-T4017W	3.0	130	- InGaN
OPS-T4016SB	OPS-T4017SB	3.0	30	470 InGaN
OPS-T4016SPG	OPS-T4017SPG	3.0	250	525 InGaN
OPS-T4016SYG	OPS-T4017SYG	2.1	8	570 AlGaInP
OPS-T4016SY	OPS-T4017SY	2.1	25	590 AlGaInP
OPS-T4016SA	OPS-T4017SA	2.0	25	610 AlGaInP
OPS-T4016SE	OPS-T4017SE	2.1	30	625 AlGaInP
OPS-T4016LR	OPS-T4017LR	2.1	5	640 AlGaInP

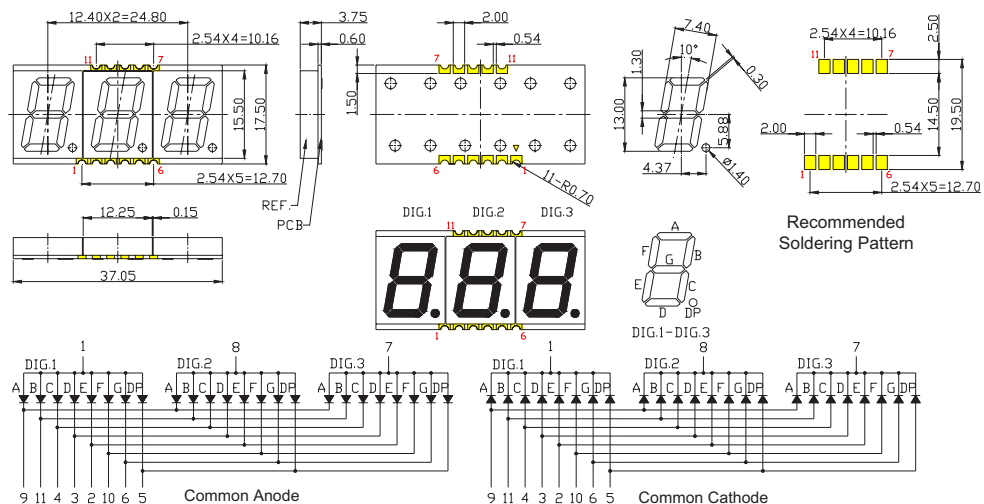
Package Dimension / Internal Circuit



0.51" Triple digits display



Inquiry



Part Number

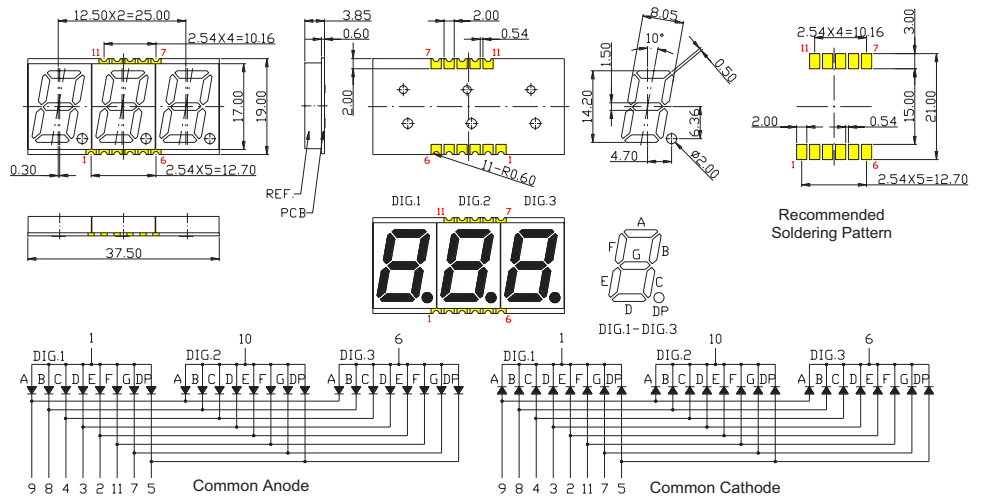
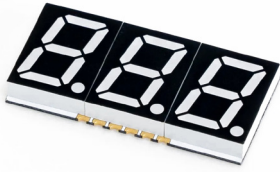
Common Anode	Common Cathode	IF = 20 mA V _F (V) Typ.	I _V (mcd) Typ.	Wavelength(nm) λ _d @ IF = 20mA (Dice materials)
OPS-T5116W	OPS-T5117W	3.0	170	- InGaN
OPS-T5116SB	OPS-T5117SB	3.0	70	470 InGaN
OPS-T5116SPG	OPS-T5117SPG	3.0	350	525 InGaN
OPS-T5116SYG	OPS-T5117SYG	2.1	12	570 AlGaInP
OPS-T5116SY	OPS-T5117SY	2.1	50	590 AlGaInP
OPS-T5116SA	OPS-T5117SA	2.0	50	610 AlGaInP
OPS-T5116SE	OPS-T5117SE	2.1	70	625 AlGaInP
OPS-T5116LR	OPS-T5117LR	2.1	7	640 AlGaInP



Digit 7-Segment SMD Display



Package Dimension / Internal Circuit



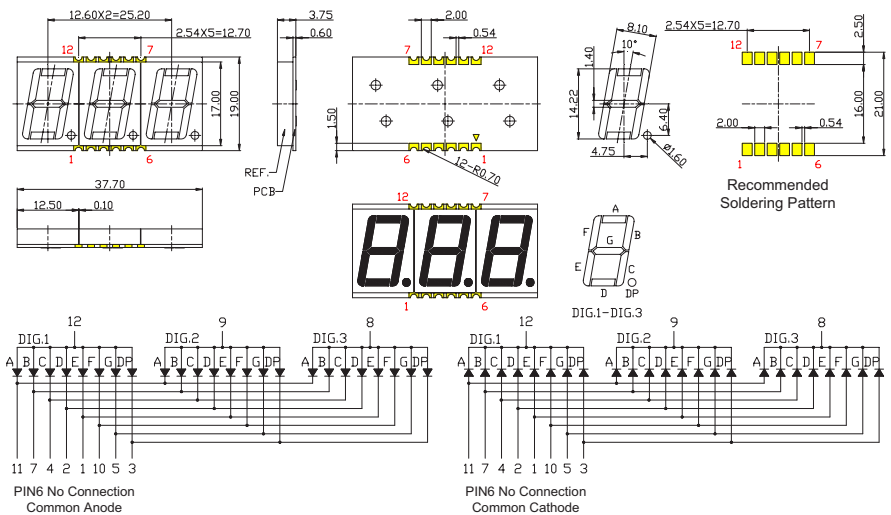
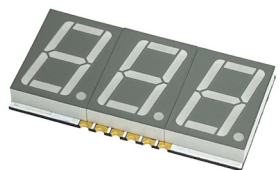
0.56" Triple digits display



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.		
OPS-T5612W	OPS-T5613W	3.0	170	-	InGaN
OPS-T5612SB	OPS-T5613SB	3.0	70	470	InGaN
OPS-T5612SPG	OPS-T5613SPG	3.0	350	525	InGaN
OPS-T5612SYG	OPS-T5613SYG	2.1	12	570	AlGaInP
OPS-T5612SY	OPS-T5613SY	2.1	50	590	AlGaInP
OPS-T5612SA	OPS-T5613SA	2.0	50	610	AlGaInP
OPS-T5612SE	OPS-T5613SE	2.1	70	625	AlGaInP
OPS-T5612LR	OPS-T5613LR	2.1	7	640	AlGaInP

Package Dimension / Internal Circuit



0.56" Triple digits display



Inquiry

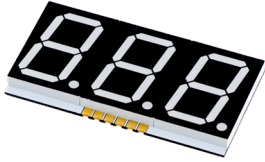
Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.		
OPS-T5640W	OPS-T5641W	3.0	170	-	InGaN
OPS-T5640SB	OPS-T5641SB	3.0	70	470	InGaN
OPS-T5640SPG	OPS-T5641SPG	3.0	350	525	InGaN
OPS-T5640SYG	OPS-T5641SYG	2.1	12	570	AlGaInP
OPS-T5640SY	OPS-T5641SY	2.1	50	590	AlGaInP
OPS-T5640SA	OPS-T5641SA	2.0	50	610	AlGaInP
OPS-T5640SE	OPS-T5641SE	2.1	70	625	AlGaInP
OPS-T5640LR	OPS-T5641LR	2.1	7	640	AlGaInP



Digit 7-Segment SMD Display



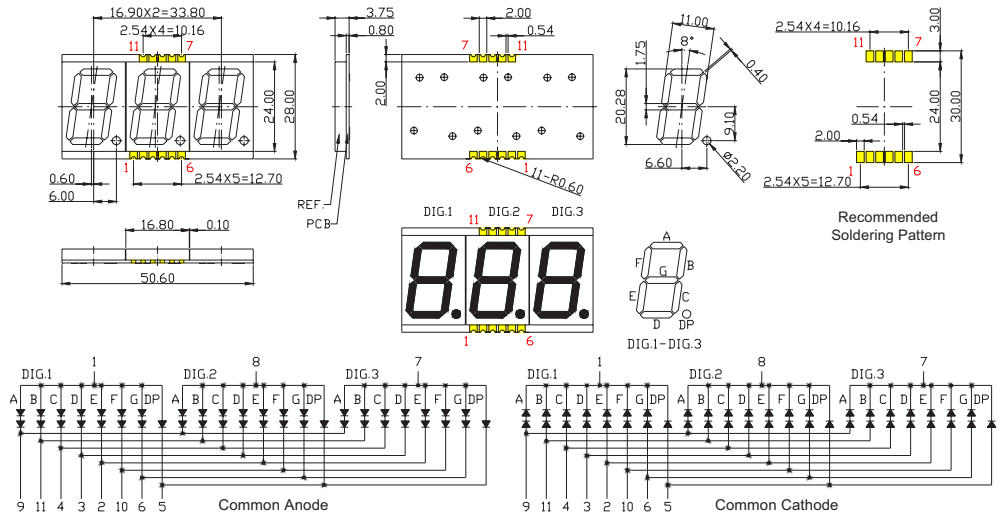
Package Dimension / Internal Circuit



0.80" Triple digits display



Inquiry



Part Number

Common Anode	Common Cathode
OPS-T8016W	OPS-T8017W
OPS-T8016SB	OPS-T8017SB
OPS-T8016SPG	OPS-T8017SPG
OPS-T8016SYG	OPS-T8017SYG
OPS-T8016SY	OPS-T8017SY
OPS-T8016SA	OPS-T8017SA
OPS-T8016SE	OPS-T8017SE
OPS-T8016LR	OPS-T8017LR

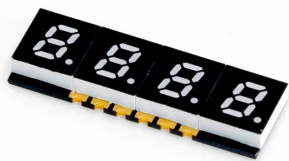
IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	340
3.0	120
3.0	650
2.1	23
2.1	85
2.0	85
2.1	120
2.1	15

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

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

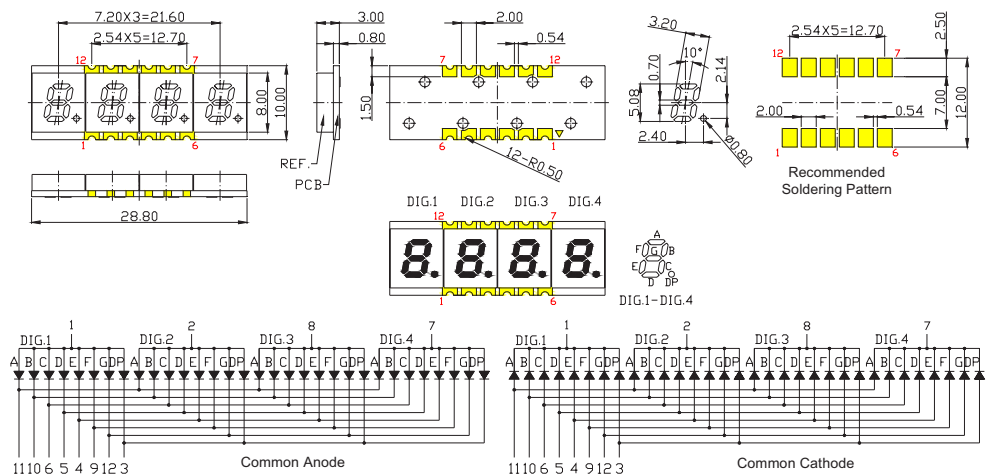
Package Dimension / Internal Circuit



0.2" Quadruple digits display



Inquiry



Part Number

Common Anode	Common Cathode
OPS-Q2012W3	OPS-Q2013W3
OPS-Q2012SB	OPS-Q2013SB
OPS-Q2012SPG	OPS-Q2013SPG
OPS-Q2012SYG	OPS-Q2013SYG
OPS-Q2012SY	OPS-Q2013SY
OPS-Q2012SA	OPS-Q2013SA
OPS-Q2012SE	OPS-Q2013SE
OPS-Q2012LR	OPS-Q2013LR

IF = 20 mA

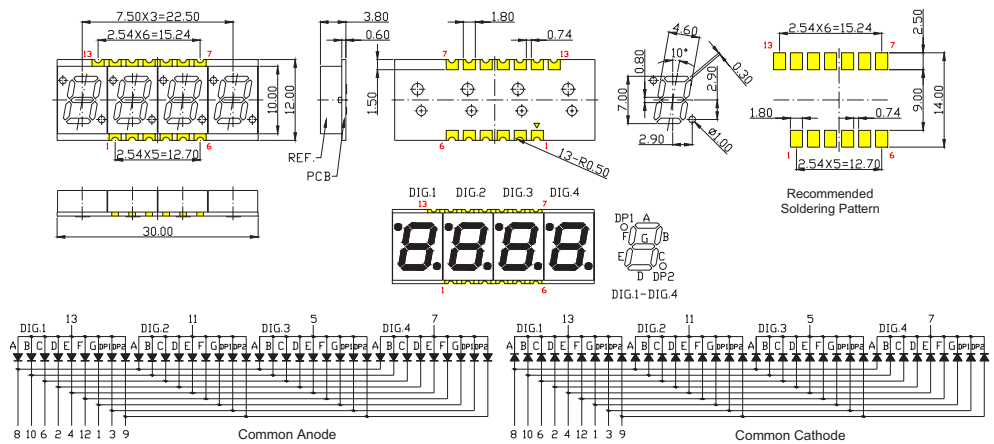
V _F (V) Typ.	I _V (mcd) Typ.
3.0	130
3.0	30
3.0	220
2.1	8
2.1	25
2.0	25
2.1	30
2.1	5

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



0.28" Quadruple digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPS-Q2818W	OPS-Q2817W
OPS-Q2818SB	OPS-Q2817SB
OPS-Q2818SPG	OPS-Q2817SPG
OPS-Q2818SYG	OPS-Q2817SYG
OPS-Q2818SY	OPS-Q2817SY
OPS-Q2818SA	OPS-Q2817SA
OPS-Q2818SE	OPS-Q2817SE
OPS-Q2818LR	OPS-Q2817LR

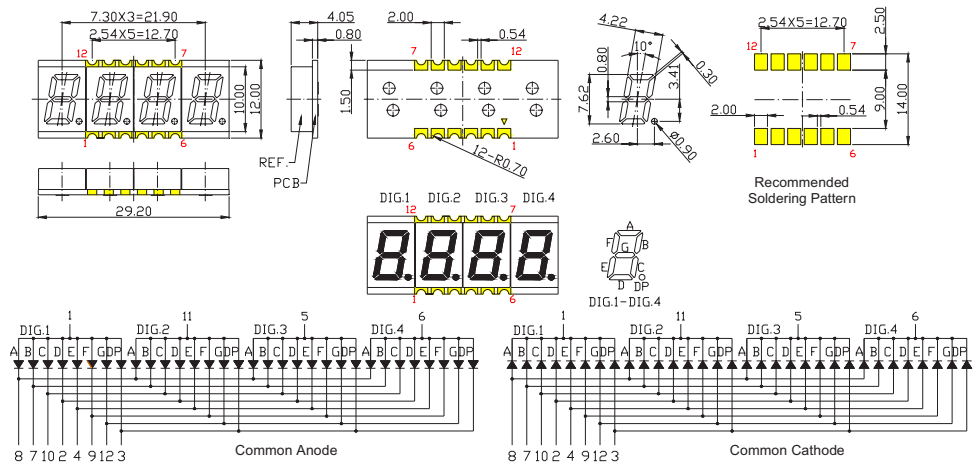
IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	120
3.0	30
3.0	220
2.1	8
2.1	25
2.0	25
2.1	30
2.1	5

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



0.3" Quadruple digits display



Inquiry

Part Number

Common Anode	Common Cathode
OPS-Q3014W3	OPS-Q3015W3
OPS-Q3014SB	OPS-Q3015SB
OPS-Q3014SPG	OPS-Q3015SPG
OPS-Q3014SYG	OPS-Q3015SYG
OPS-Q3014SY	OPS-Q3015SY
OPS-Q3014SA	OPS-Q3015SA
OPS-Q3014SE	OPS-Q3015SE
OPS-Q3014LR	OPS-Q3015LR

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	110
3.0	25
3.0	200
2.1	7
2.1	20
2.0	20
2.1	25
2.1	4

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

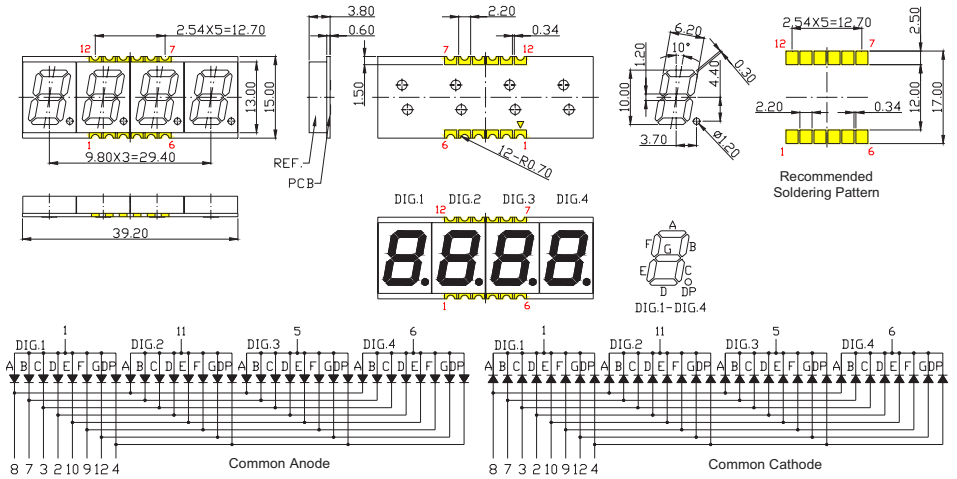
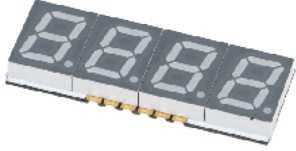
-	InGaN
470	InGaN
525	InGaN
570	AlGaInP
590	AlGaInP
610	AlGaInP
625	AlGaInP
640	AlGaInP



Digit 7-Segment SMD Display



Package Dimension / Internal Circuit

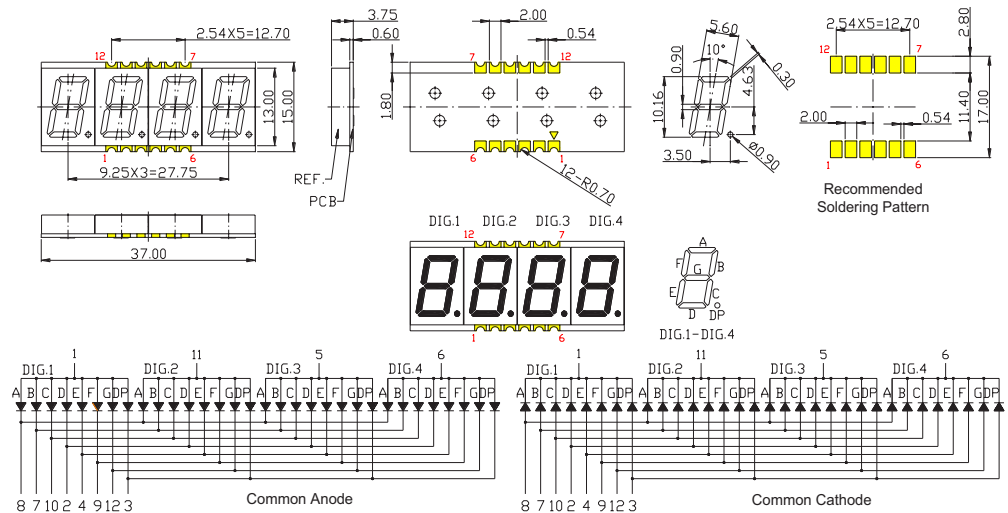


0.39" Quadruple digits display



Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.		
OPS-Q3914W	OPS-Q3915W	3.0	230	-	InGaN
OPS-Q3914SB	OPS-Q3915SB	3.0	80	470	InGaN
OPS-Q3914SPG	OPS-Q3915SPG	3.0	420	525	InGaN
OPS-Q3914SYG	OPS-Q3915SYG	2.1	15	570	AlGaInP
OPS-Q3914SY	OPS-Q3915SY	2.1	60	590	AlGaInP
OPS-Q3914SA	OPS-Q3915SA	2.0	60	610	AlGaInP
OPS-Q3914SE	OPS-Q3915SE	2.1	80	625	AlGaInP
OPS-Q3914LR	OPS-Q3915LR	2.1	10	640	AlGaInP

Package Dimension / Internal Circuit



0.4" Quadruple digits display



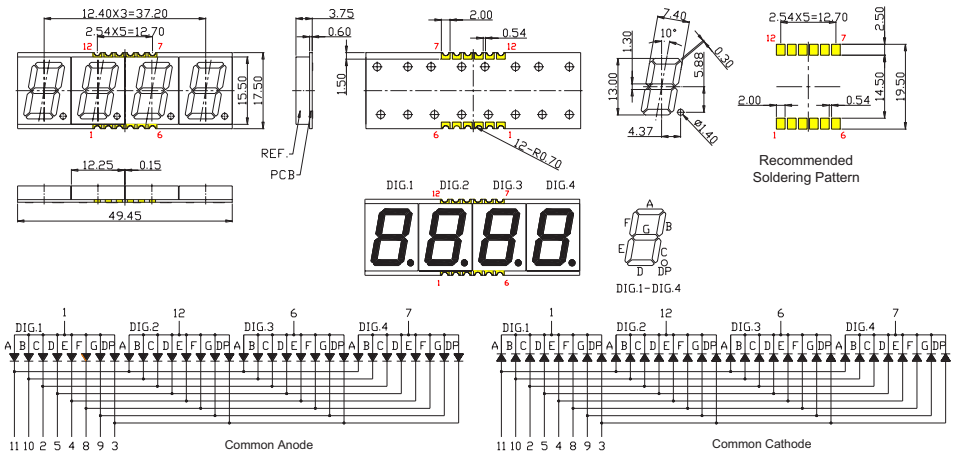
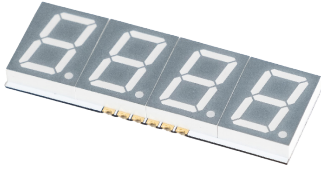
Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.		
OPS-Q4012W	OPS-Q4013W	3.0	130	-	InGaN
OPS-Q4012SB	OPS-Q4013SB	3.0	30	470	InGaN
OPS-Q4012SPG	OPS-Q4013SPG	3.0	250	525	InGaN
OPS-Q4012SYG	OPS-Q4013SYG	2.1	8	570	AlGaInP
OPS-Q4012SY	OPS-Q4013SY	2.1	25	590	AlGaInP
OPS-Q4012SA	OPS-Q4013SA	2.0	25	610	AlGaInP
OPS-Q4012SE	OPS-Q4013SE	2.1	30	625	AlGaInP
OPS-Q4012LR	OPS-Q4013LR	2.1	5	640	AlGaInP



Digit 7-Segment SMD Display



Package Dimension / Internal Circuit

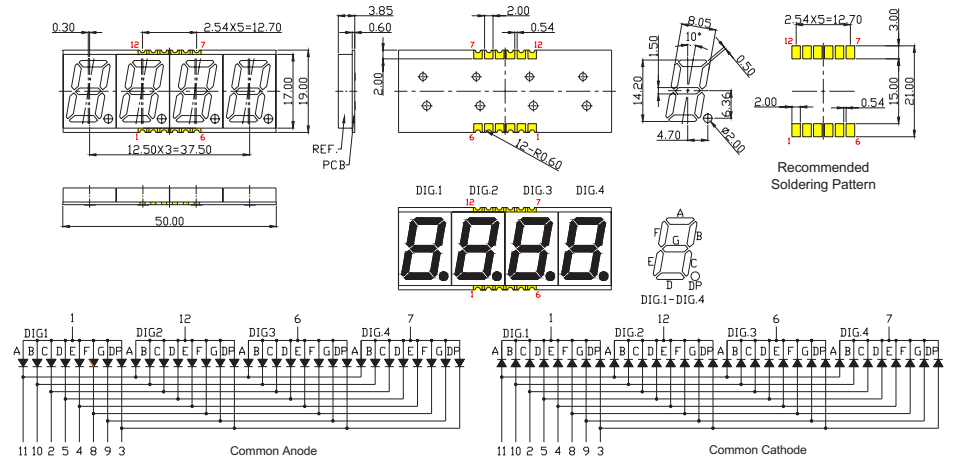


0.51" Quadruple digits display



Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.		
OPS-Q5114W	OPS-Q5115W	3.0	170	-	InGaN
OPS-Q5114SB	OPS-Q5115SB	3.0	70	470	InGaN
OPS-Q5114SPG	OPS-Q5115SPG	3.0	350	525	InGaN
OPS-Q5114SYG	OPS-Q5115SYG	2.1	12	570	AlGaInP
OPS-Q5114SY	OPS-Q5115SY	2.1	50	590	AlGaInP
OPS-Q5114SA	OPS-Q5115SA	2.0	50	610	AlGaInP
OPS-Q5114SE	OPS-Q5115SE	2.1	70	625	AlGaInP
OPS-Q5114LR	OPS-Q5115LR	2.1	7	640	AlGaInP

Package Dimension / Internal Circuit



0.56" Quadruple digits display



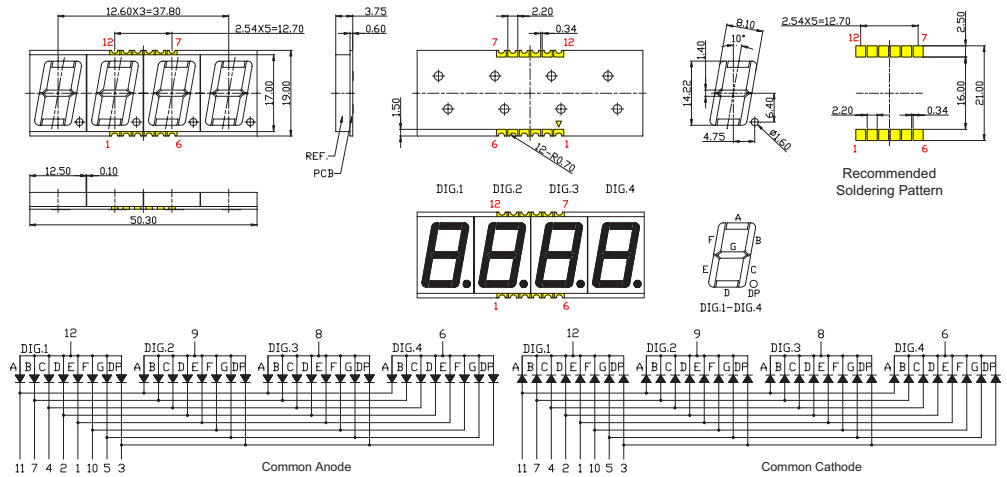
Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.		
OPS-Q5614W	OPS-Q5615W	3.0	170	-	InGaN
OPS-Q5614SB	OPS-Q5615SB	3.0	70	470	InGaN
OPS-Q5614SPG	OPS-Q5615SPG	3.0	350	525	InGaN
OPS-Q5614SYG	OPS-Q5615SYG	2.1	12	570	AlGaInP
OPS-Q5614SY	OPS-Q5615SY	2.1	50	590	AlGaInP
OPS-Q5614SA	OPS-Q5615SA	2.0	50	610	AlGaInP
OPS-Q5614SE	OPS-Q5615SE	2.1	70	625	AlGaInP
OPS-Q5614LR	OPS-Q5615LR	2.1	7	640	AlGaInP



Digit 7-Segment SMD Display



Package Dimension / Internal Circuit



0.56" Quadruple digits display



Part Number

Common Anode

Common Cathode

OPS-Q5646W	OPS-Q5647W
OPS-Q5646SB	OPS-Q5647SB
OPS-Q5646SPG	OPS-Q5647SPG
OPS-Q5646SYG	OPS-Q5647SYG
OPS-Q5646SY	OPS-Q5647SY
OPS-Q5646SA	OPS-Q5647SA
OPS-Q5646SE	OPS-Q5647SE
OPS-Q5646LR	OPS-Q5647LR

IF = 20 mA

V_F(V)
Typ.

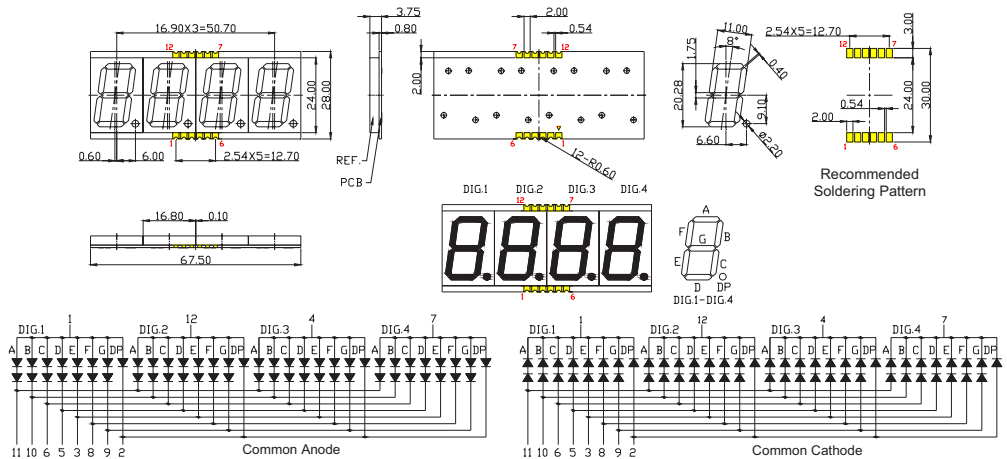
I_V(mcd)
Typ.

3.0	170
3.0	70
3.0	350
2.1	12
2.1	50
2.0	50
2.1	70
2.1	7

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



Part Number

Common Anode

Common Cathode

OPS-Q8012W	OPS-Q8013W
OPS-Q8012SB	OPS-Q8013SB
OPS-Q8012SPG	OPS-Q8013SPG
OPS-Q8012SYG	OPS-Q8013SYG
OPS-Q8012SY	OPS-Q8013SY
OPS-Q8012SA	OPS-Q8013SA
OPS-Q8012SE	OPS-Q8013SE
OPS-Q8012LR	OPS-Q8013LR

IF = 20 mA

V_F(V)
Typ.

I_V(mcd)
Typ.

3.0	340
3.0	120
3.0	650
2.1	23
2.1	85
2.0	85
2.1	120
2.1	15

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

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

0.8" Quadruple digits display

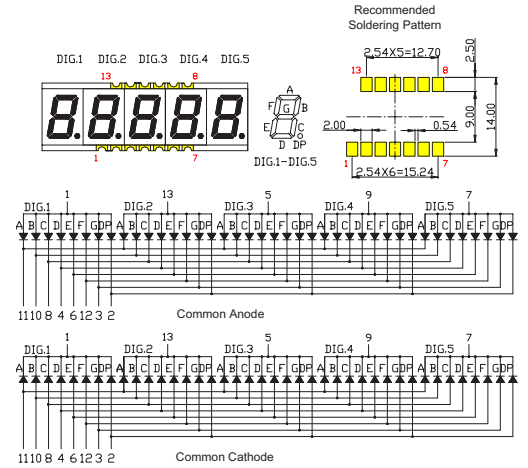
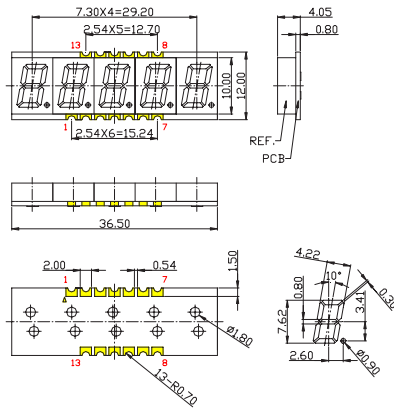
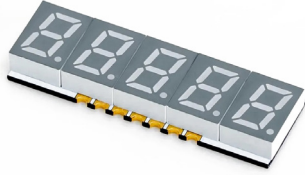




Digit 7-Segment SMD Display



Package Dimension / Internal Circuit



0.3" Five digits display



Inquiry

Part Number

Common Anode

Common Cathode

OPS-F3010W3	OPS-F3011W3
OPS-F3010SB	OPS-F3011SB
OPS-F3010SPG	OPS-F3011SPG
OPS-F3010SYG	OPS-F3011SYG
OPS-F3010SY	OPS-F3011SY
OPS-F3010SA	OPS-F3011SA
OPS-F3010SE	OPS-F3011SE
OPS-F3010LR	OPS-F3011LR

IF = 20 mA

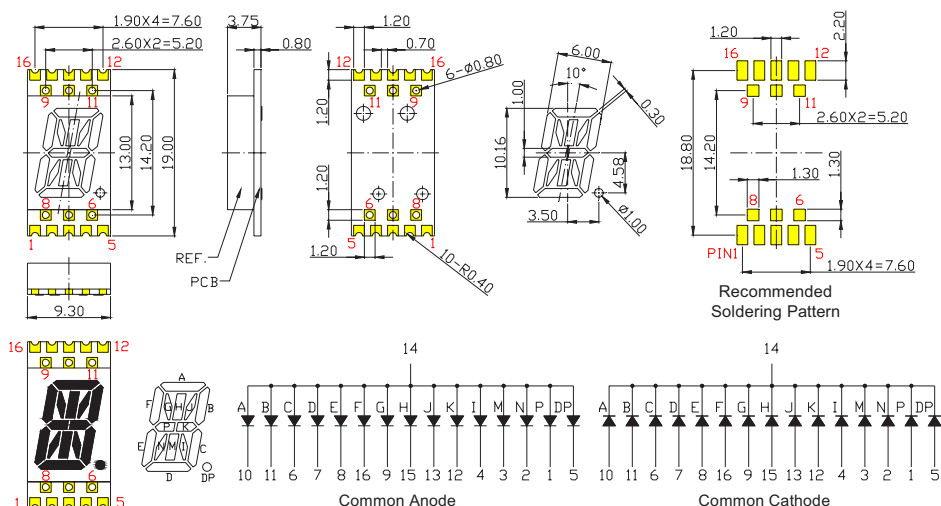
V_f (V)
Typ.

I_v (mcd)
Typ.

3.0	110
3.0	25
3.0	200
2.1	7
2.1	20
2.0	20
2.1	25
2.1	4

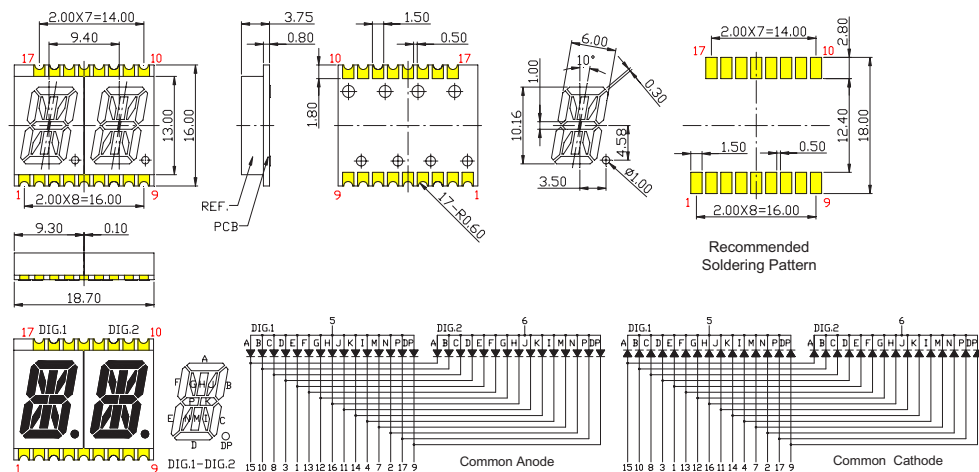
Wavelength(nm) λ_d @ IF = 20mA (Dice materials)

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



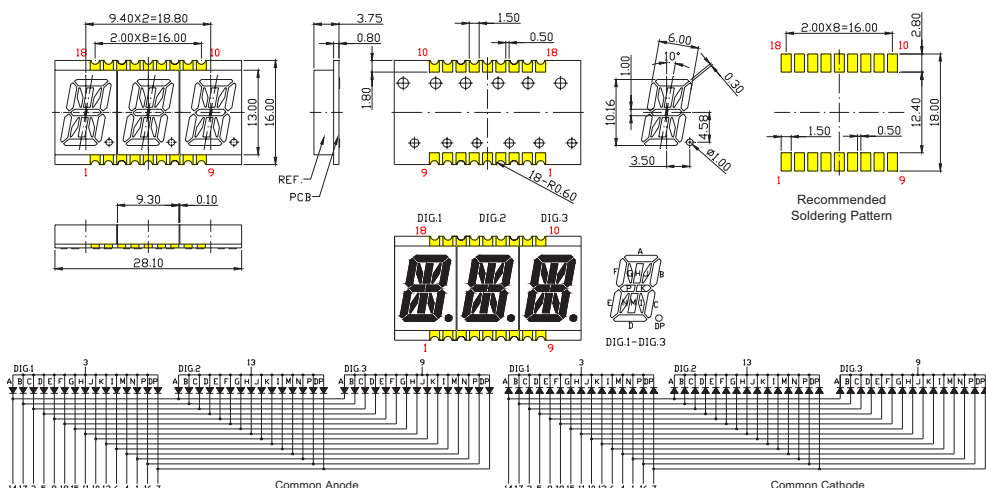
Inquiry

Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V _F (V) Typ.	I _v (mcd) Typ.	
OPS-AS4020W3	OPS-AS4021W3	3.0	110	- InGaN
OPS-AS4020SB	OPS-AS4021SB	3.0	25	470 InGaN
OPS-AS4020SPG	OPS-AS4021SPG	3.0	200	525 InGaN
OPS-AS4020SYG	OPS-AS4021SYG	2.1	7	570 AlGaInP
OPS-AS4020SY	OPS-AS4021SY	2.1	20	590 AlGaInP
OPS-AS4020SA	OPS-AS4021SA	2.0	20	610 AlGaInP
OPS-AS4020SE	OPS-AS4021SE	2.1	25	625 AlGaInP
OPS-AS4020LR	OPS-AS4021LR	2.1	4	640 AlGaInP



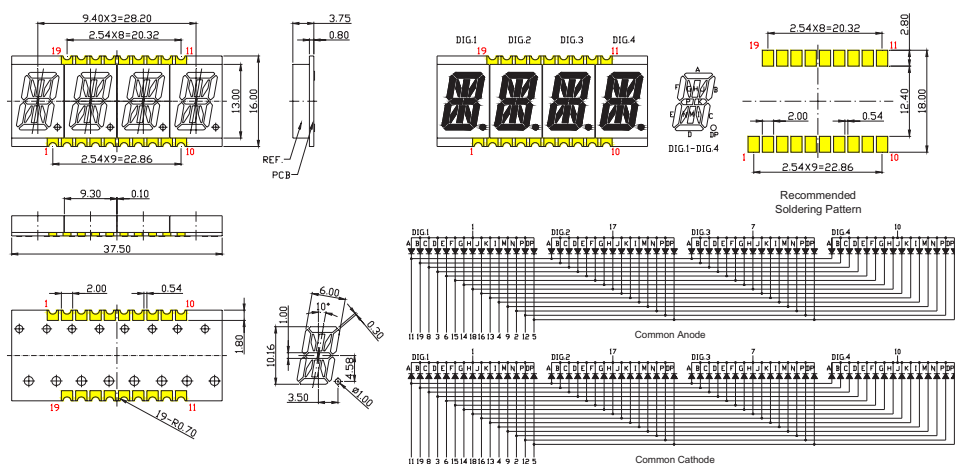
Inquiry

Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.	
OPS-AD4020W3	OPS-AD4021W3	3.0	110	- InGaN
OPS-AD4020SB	OPS-AD4021SB	3.0	25	470 InGaN
OPS-AD4020SPG	OPS-AD4021SPG	3.0	200	525 InGaN
OPS-AD4020SYG	OPS-AD4021SYG	2.1	7	570 AlGaInP
OPS-AD4020SY	OPS-AD4021SY	2.1	20	590 AlGaInP
OPS-AD4020SA	OPS-AD4021SA	2.0	20	610 AlGaInP
OPS-AD4020SE	OPS-AD4021SE	2.1	25	625 AlGaInP
OPS-AD4020LR	OPS-AD4021LR	2.1	4	640 AlGaInP



Inquiry

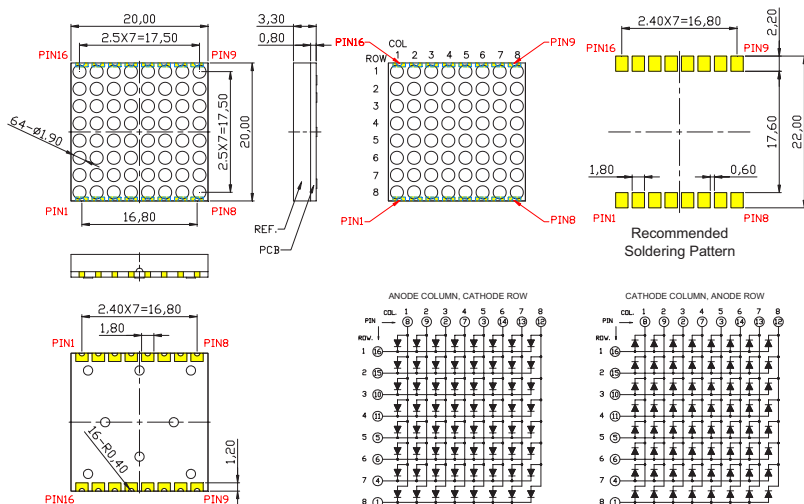
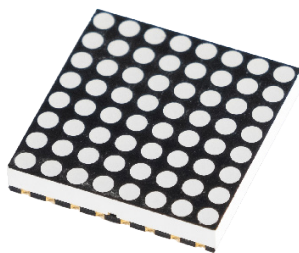
Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V _F (V) Typ.	I _F (mcd) Typ.	
OPS-AT4024W3	OPS-AT4025W3	3.0	110	- InGaN
OPS-AT4024SB	OPS-AT4025SB	3.0	25	470 InGaN
OPS-AT4024SPG	OPS-AT4025SPG	3.0	200	525 InGaN
OPS-AT4024SYG	OPS-AT4025SYG	2.1	7	570 AlGaInP
OPS-AT4024SY	OPS-AT4025SY	2.1	20	590 AlGaInP
OPS-AT4024SA	OPS-AT4025SA	2.0	20	610 AlGaInP
OPS-AT4024SE	OPS-AT4025SE	2.1	25	625 AlGaInP
OPS-AT4024LR	OPS-AT4025LR	2.1	4	640 AlGaInP



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.	
OPS-AQ4022W3	OPS-AQ4023W3	3.0	110	- InGaN
OPS-AQ4022SB	OPS-AQ4023SB	3.0	25	470 InGaN
OPS-AQ4022SPG	OPS-AQ4023SPG	3.0	200	525 InGaN
OPS-AQ4022SYG	OPS-AQ4023SYG	2.1	7	570 AlGaInP
OPS-AQ4022SY	OPS-AQ4023SY	2.1	20	590 AlGaInP
OPS-AQ4022SA	OPS-AQ4023SA	2.0	20	610 AlGaInP
OPS-AQ4022SE	OPS-AQ4023SE	2.1	25	625 AlGaInP
OPS-AQ4022LR	OPS-AQ4023LR	2.1	4	640 AlGaInP

Package Dimension / Internal Circuit



0.76" 8X8 Dot matrix display



Inquiry

Part Number

Common Anode	Common Cathode
OPS-M28810W3	OPS-M28811W3
OPS-M28810SB	OPS-M28811SB
OPS-M28810SPG	OPS-M28811SPG
OPS-M28810SYG	OPS-M28811SYG
OPS-M28810SY	OPS-M28811SY
OPS-M28810SA	OPS-M28811SA
OPS-M28810SE	OPS-M28811SE
OPS-M28810LR	OPS-M28811LR

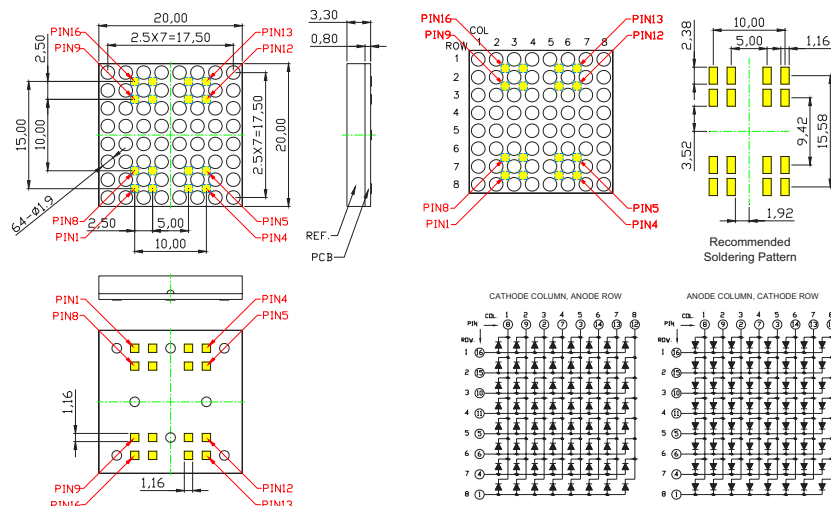
IF = 20 mA

$V_F(V)$ Typ.	$I_V(mcd)$ Typ.
3.0	150
3.0	70
3.0	350
2.1	12
2.1	50
2.0	50
2.1	70
2.1	8

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



0.76" 8X8 Dot matrix display



Inquiry

Part Number

Common Anode	Common Cathode
OPS-M28814W3	OPS-M28815W3
OPS-M28814SB	OPS-M28815SB
OPS-M28814SPG	OPS-M28815SPG
OPS-M28814SYG	OPS-M28815SYG
OPS-M28814SY	OPS-M28815SY
OPS-M28814SA	OPS-M28815SA
OPS-M28814SE	OPS-M28815SE
OPS-M28814LR	OPS-M28815LR

IF = 20 mA

$V_F(V)$ Typ.	$I_V(mcd)$ Typ.
3.0	150
3.0	70
3.0	350
2.1	12
2.1	50
2.0	50
2.1	70
2.1	8

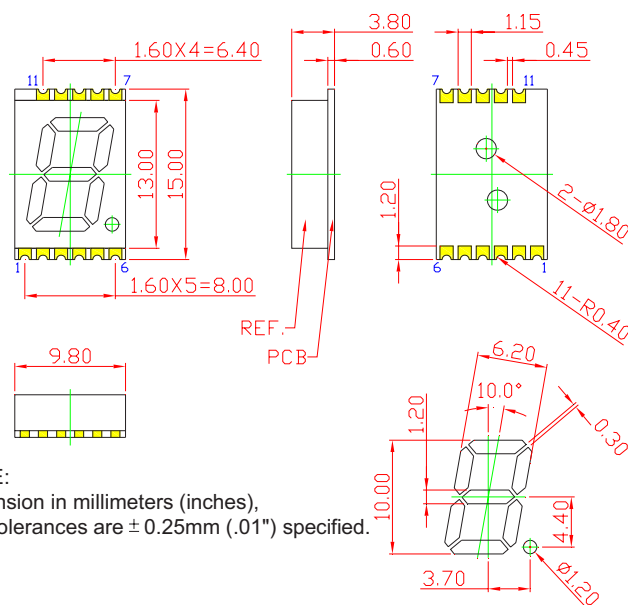
Wavelength(nm) λ_d @ IF = 20mA (Dice materials)

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



A 7-segment display showing the number 8. The display is black with white segments. The segments are arranged in a 3x3 grid. The top row has three segments, the middle row has three segments, and the bottom row has three segments. The segments are labeled a through g. The segments a, b, c, d, e, and f are lit, forming the number 8. The segment g is not lit. The display is mounted on a black PCB with yellow pins.

Inquiry



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

Soldering Pattern

1.60X4=6.40

2.20

11 7

0.45

1.15

12.60

17.00

1 6

1.60X5=8.00

5

10

9

R

G

B

A B C D E F G DP

A B C D E F G DP

A B C D E F G DP

8 7 4 3 2 1 1 6

OPS-S3910F2C (Common Anode)

5

10

9

R

G

B

A B C D E F G DP

A B C D E F G DP

A B C D E F G DP

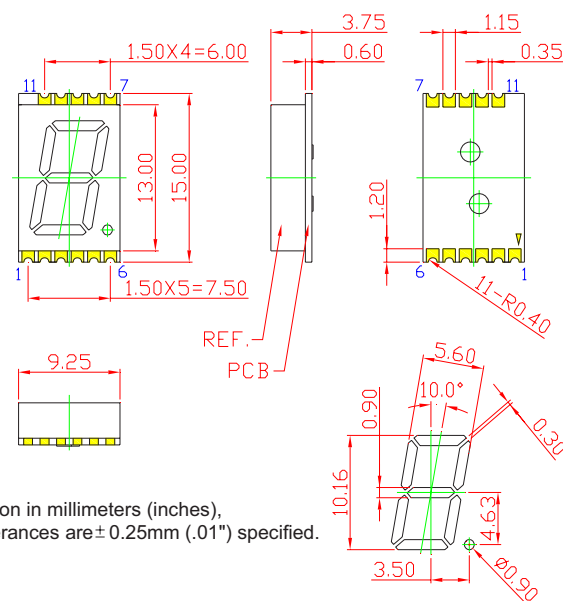
8 7 4 3 2 1 1 6

OPS-S3911F2A (Common Cathode)

Part Number		Wavelength(nm) λd @ IF = 20mA	IF = 5 mA (R) IF = 2 mA (G/B)	
Common Anode	Common Cathode		V _F (V) Typ.	I _V (mcd) Typ.
OPS-S3910F2C	OPS-S3911F2A	621 R	1.9	32
		530 G	2.5	46
		469 B	2.5	8



Inquiry



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

Figure 1 illustrates the dimensions and pin connections of the display module. The top view shows the module with pins 1, 6, 7, and 11. The side view shows the module with segments 1, 6, 10, and 11. The dimensions are as follows:

- Segment 11 to Segment 7: 2.20mm
- Segment 11 to Segment 7: 0.35mm
- Segment 11 to Segment 7: 1.15mm
- Segment 1 to Segment 6: 1.50x5=7.50mm
- Segment 1 to Segment 6: 1.50x4=6.00mm
- Total height: 17.00mm

The pin connections for the Common Anode (DPS-S4010F2C) and Common Cathode (DPS-S4011F2A) versions are shown below.

Common Anode (DPS-S4010F2C)

Pin	Segment
8	A
7	B
4	C
3	D
2	E
11	F
1	G
6	DP

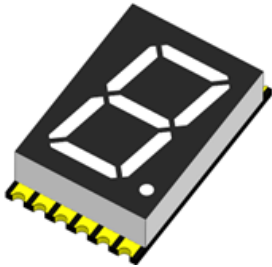
Common Cathode (DPS-S4011F2A)

Pin	Segment
8	A
7	B
4	C
3	D
2	E
11	F
1	G
6	DP

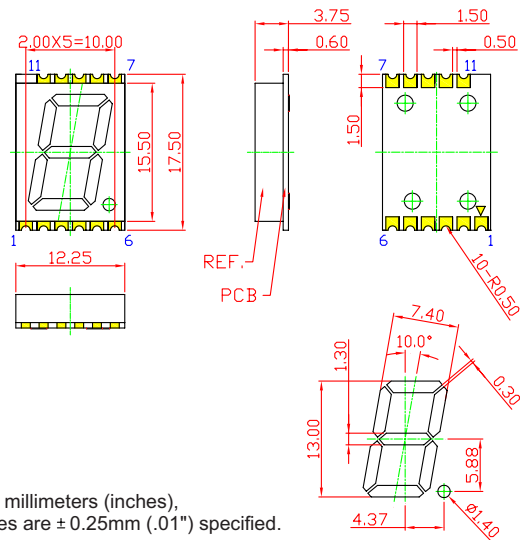
37



Package Dimension / Internal Circuit

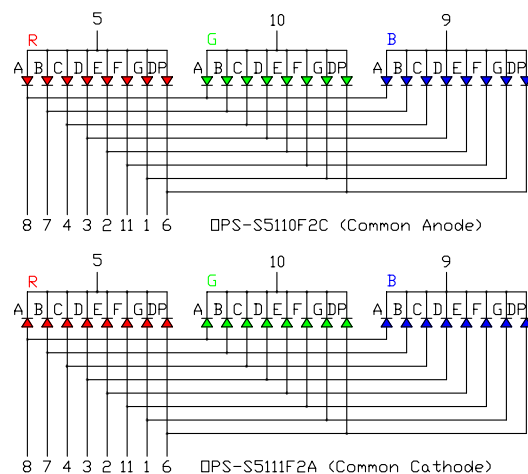
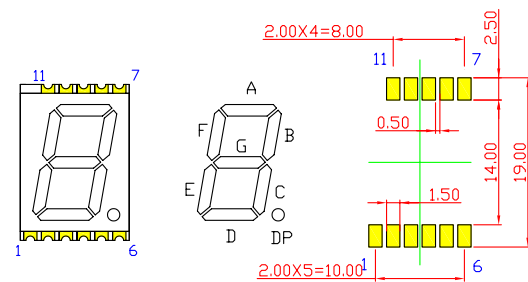


0.51" Single digits display



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

Recommended Soldering Pattern



Part Number

Common Anode

Common Cathode

OPS-S5110F2C

OPS-S5111F2A

Wavelength(nm)
 λ_d @ IF = 20mA

621 R

530 G

469 B

IF = 5 mA (R)
IF = 2 mA (G/B)

V_f (V)
Typ.

I_v (mcd)
Typ.

1.9

32

2.5

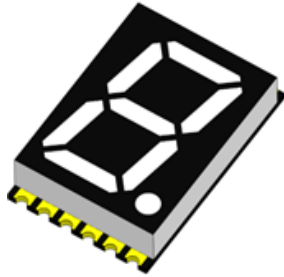
46

2.5

8



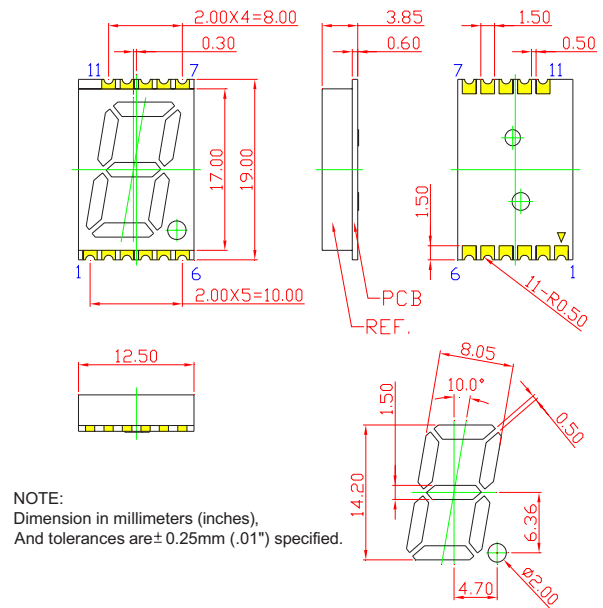
Package Dimension / Internal Circuit



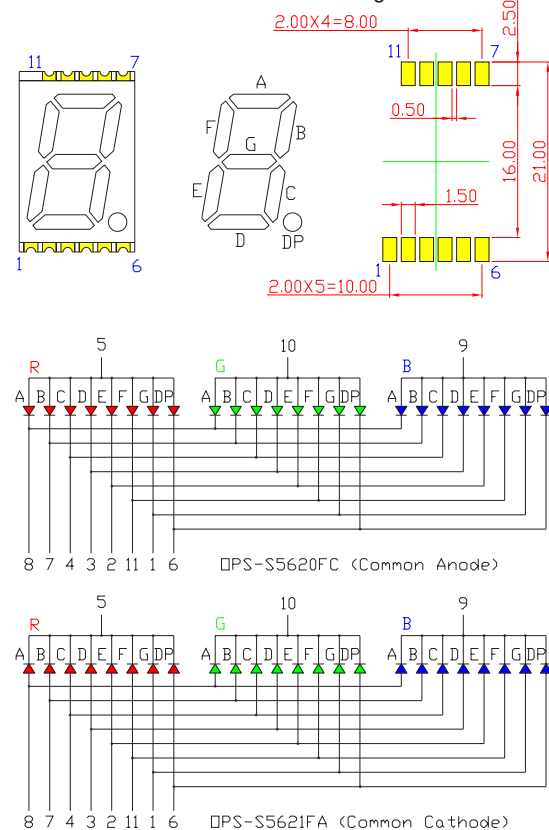
0.56" Single digits display



Inquiry



Recommended Soldering Pattern



Part Number

Common Anode

Common Cathode

OPS-S5620F2C

OPS-S5621F2A

Wavelength(nm) λ_d @ IF = 20mA

621 R

530 G

469 B

IF = 5 mA (R)
IF = 2 mA (G/B)

V_f (V)
Typ.

1.9

32

2.5

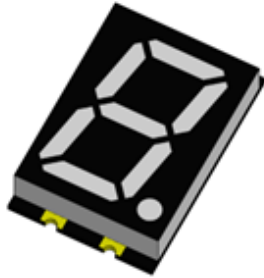
46

2.5

8



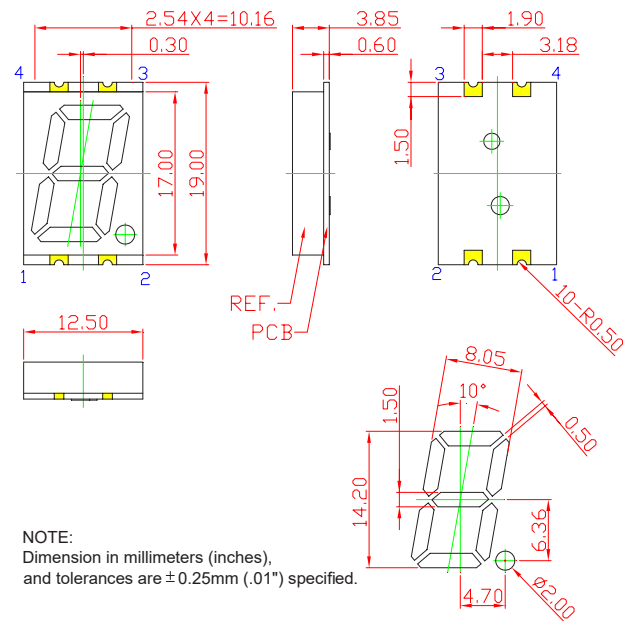
Package Dimension / Internal Circuit



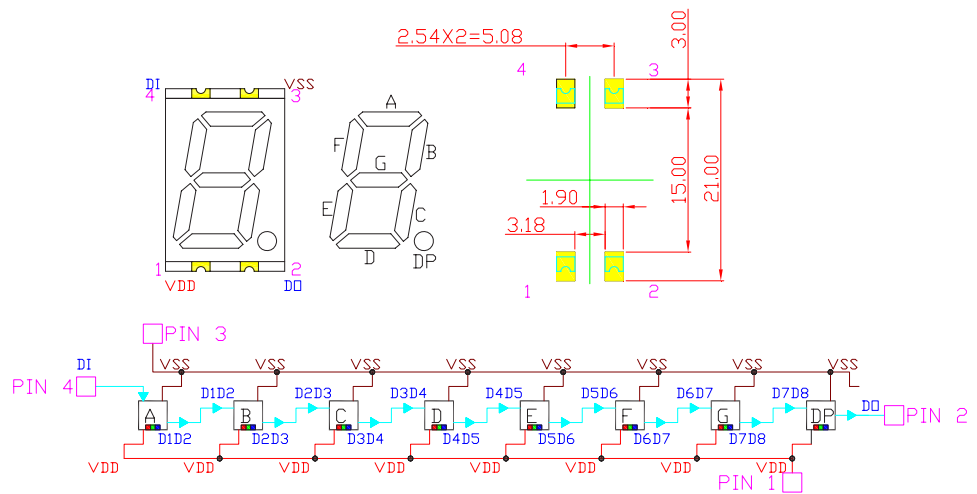
0.56" Single digits display



Inquiry



Recommended Soldering Pattern



Part Number

OPS-S56AAF5

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

IF=5mA
(mcd)
Min

50

35

12

IF=5mA
(mcd)
Max

200

135

35

Wavelength(nm)
 λ_d @ IF = 20mA

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

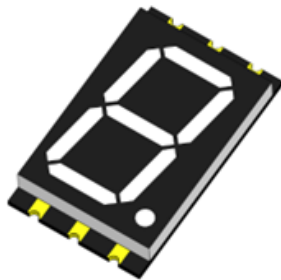
R8 R7 R6 R5 R4 R3 R2 R1 R0

B8 B7 B6 B5 B4 B3 B2 B1 B0

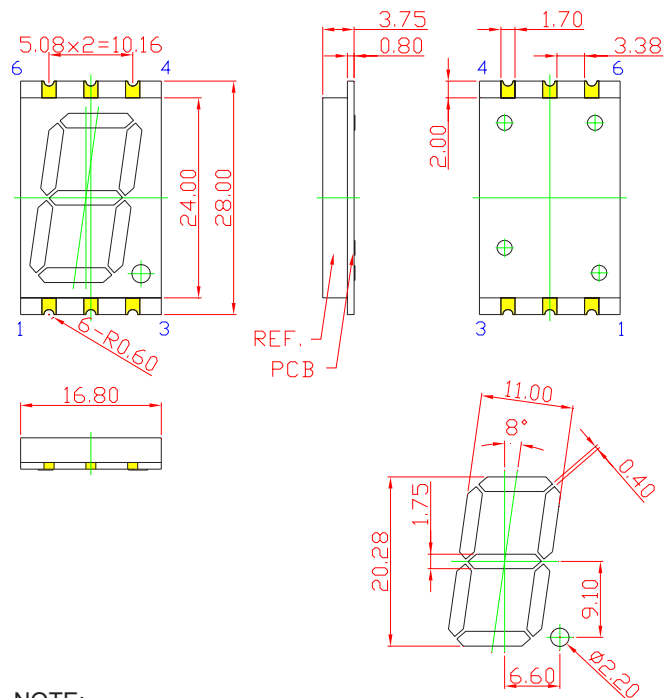
The transferred data are recognized based on the pulse widths received by the IC. A low bit 0 is represented by a 0.3us high pulse followed by a 0.9us low pulse. A high bit 1 is represented by a 0.9us high pulse followed by a 0.3us low pulse.



Package Dimension / Internal Circuit

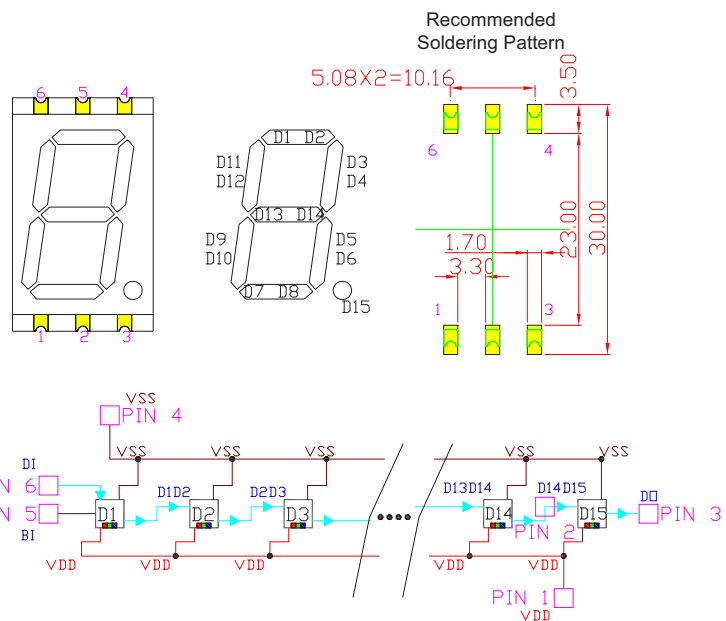


0.80" Single digits display



NOTE:

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



Part Number

OPS-S80AAF6
(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

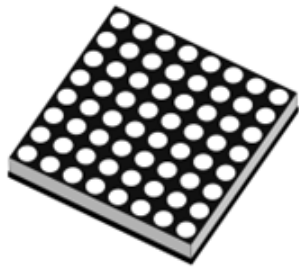
The transferred data are recognized based on the pulse widths received by the IC. A low bit 0 is represented by a 0.3us high pulse followed by a 0.9us low pulse. A high bit 1 is represented by a 0.9us high pulse followed by a 0.3us low pulse.



RGB SMD Display



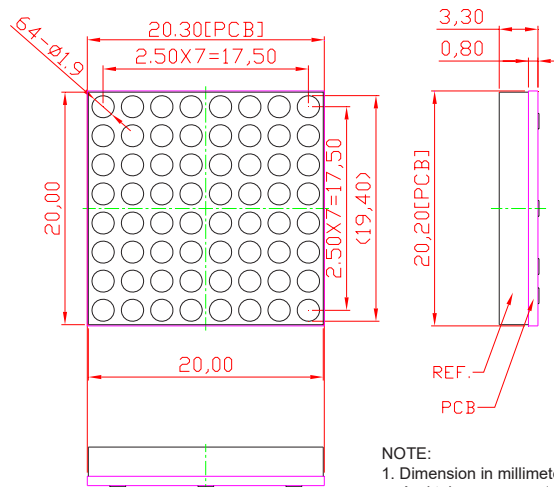
Package Dimension / Internal Circuit



8x8 Dot matrix display

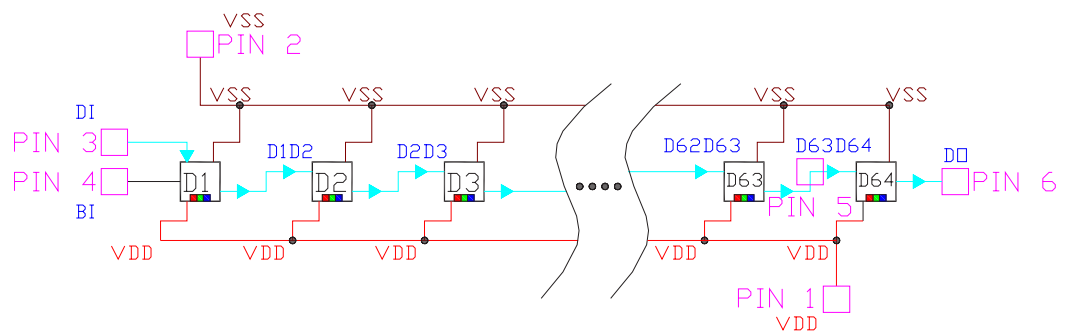
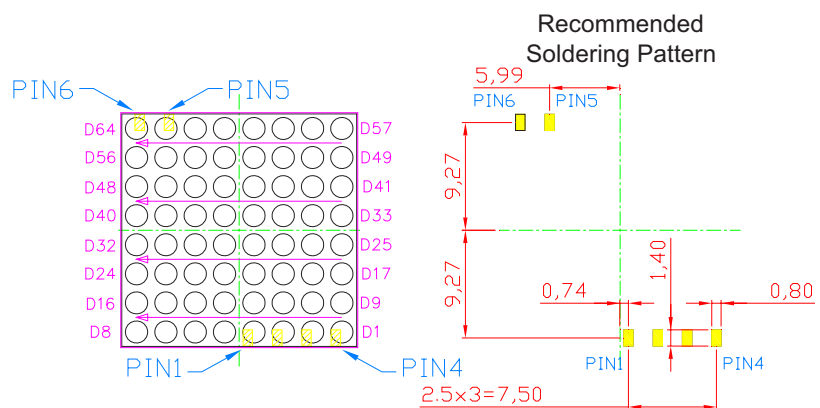


Inquiry



NOTE:

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



Part Number

OPS-M288AAF6
(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)
λd @ 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

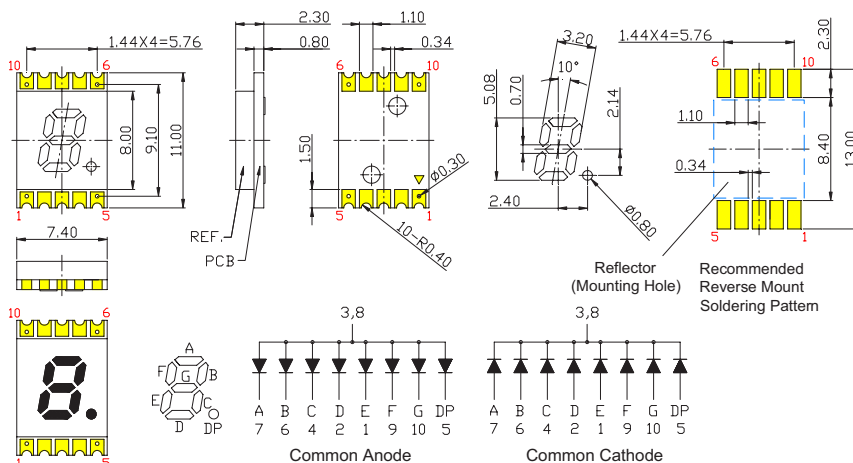
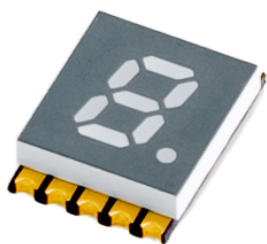
G8 G7 G6 G5 G4 G3 G2 G1 G0

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



0.20" Single digits Super thin SMD type display



Inquiry

Part Number

Common Anode	Common Cathode
OPS-S2040W3-ST	OPS-S2041W3-ST
OPS-S2040SB-ST	OPS-S2041SB-ST
OPS-S2040SPG-ST	OPS-S2041SPG-ST
OPS-S2040SYG-ST	OPS-S2041SYG-ST
OPS-S2040SY-ST	OPS-S2041SY-ST
OPS-S2040SA-ST	OPS-S2041SA-ST
OPS-S2040SE-ST	OPS-S2041SE-ST
OPS-S2040LR-ST	OPS-S2041LR-ST

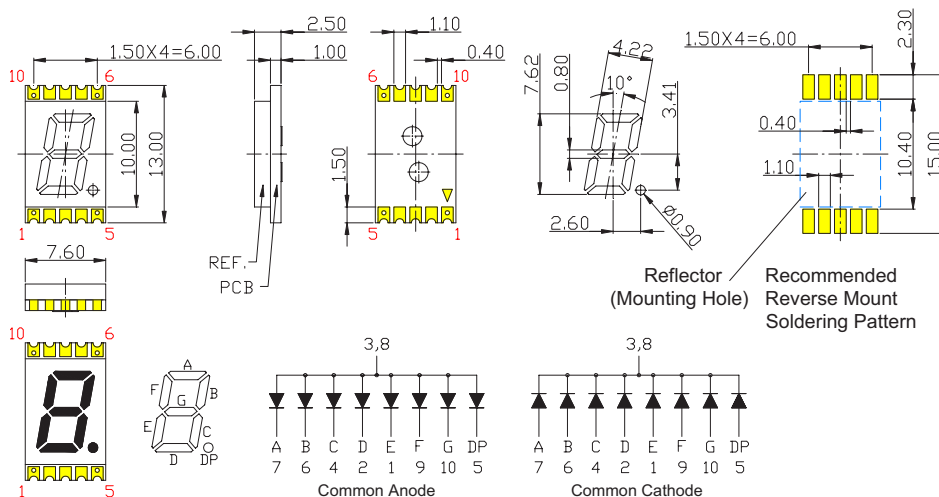
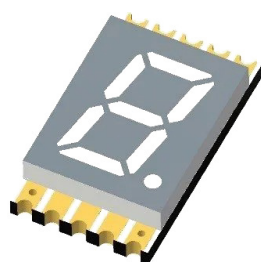
IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	130
3.0	30
3.0	220
2.1	8
2.1	25
2.0	25
2.1	30
2.1	5

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



Part Number

Common Anode	Common Cathode
OPS-S3050W3-ST	OPS-S3051W3-ST
OPS-S3050SB-ST	OPS-S3051SB-ST
OPS-S3050SPG-ST	OPS-S3051SPG-ST
OPS-S3050SYG-ST	OPS-S3051SYG-ST
OPS-S3050SY-ST	OPS-S3051SY-ST
OPS-S3050SA-ST	OPS-S3051SA-ST
OPS-S3050SE-ST	OPS-S3051SE-ST
OPS-S3050LR-ST	OPS-S3051LR-ST

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	120
3.0	50
3.0	250
2.1	8
2.1	40
2.0	40
2.1	50
2.1	6

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

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

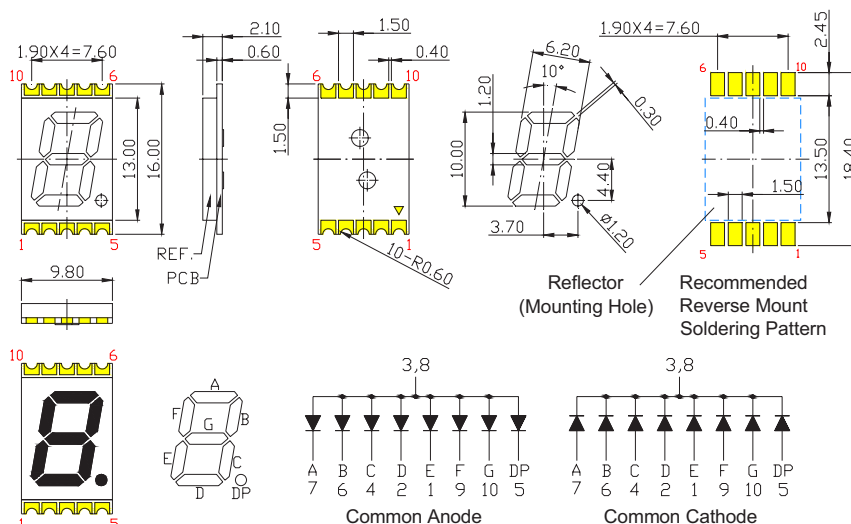
0.30" Single digits Super thin SMD type display



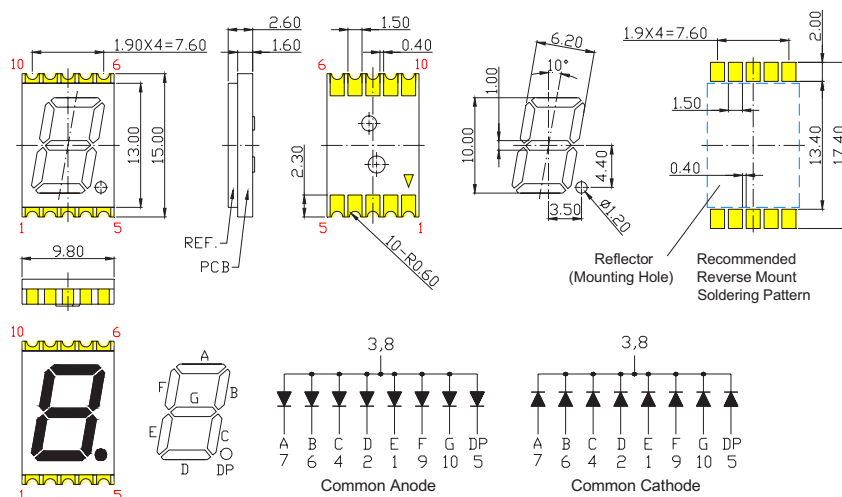
Inquiry



A 7-segment display showing the number 0. The display is black with white segments. The segments are arranged in a 3x3 grid, with the bottom-right segment missing. The number 0 is formed by lighting up the top, top-left, top-right, bottom-left, and bottom-right segments. The bottom-right segment is a small circle. The display is mounted on a black PCB with gold-colored pins.

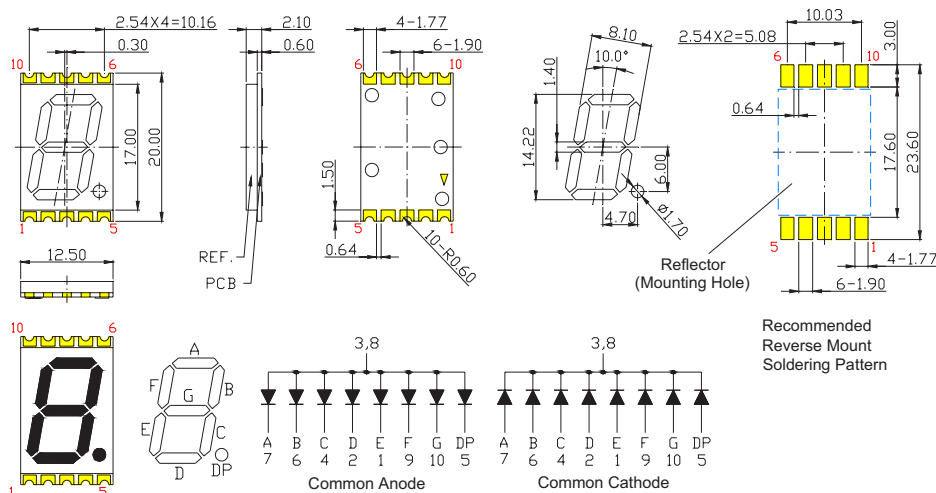
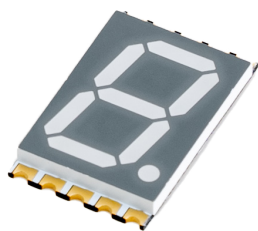


Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V _F (V) Typ.	I _F (mcd) Typ.		
OPS-S391-2W-ST	OPS-S391-3W-ST	3.0	220	-	InGaN
OPS-S391-2SB-ST	OPS-S391-3SB-ST	3.0	70	470	InGaN
OPS-S391-2SPG-ST	OPS-S391-3SPG-ST	3.0	420	525	InGaN
OPS-S391-2SYG-ST	OPS-S391-3SYG-ST	2.1	12	570	AlGaInP
OPS-S391-2SY-ST	OPS-S391-3SY-ST	2.1	60	590	AlGaInP
OPS-S391-2SA-ST	OPS-S391-3SA-ST	2.0	60	610	AlGaInP
OPS-S391-2SE-ST	OPS-S391-3SE-ST	2.1	70	625	AlGaInP
OPS-S391-2LR-ST	OPS-S391-3LR-ST	2.1	8	640	AlGaInP



Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.	
OPS-S3920SB-ST	OPS-S3921SB-ST	3.0	30	470 InGaN
OPS-S3920SPG-ST	OPS-S3921SPG-ST	3.0	200	525 InGaN
OPS-S3920YG-ST	OPS-S3921YG-ST	2.1	10	570 AlGaInP
OPS-S3920LY-ST	OPS-S3921LY-ST	2.1	15	590 AlGaInP
OPS-S3920LA-ST	OPS-S3921LA-ST	2.0	15	610 AlGaInP
OPS-S3920LE-ST	OPS-S3921LE-ST	2.1	15	625 AlGaInP

Package Dimension / Internal Circuit

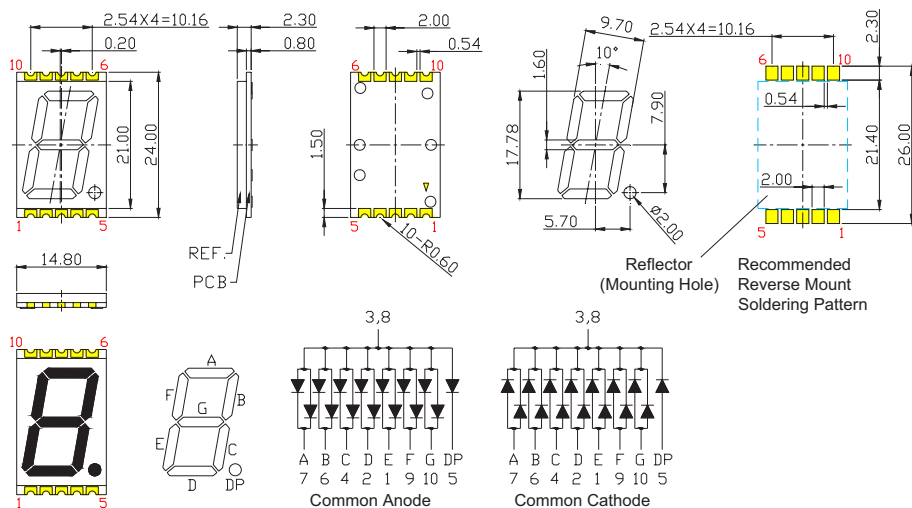
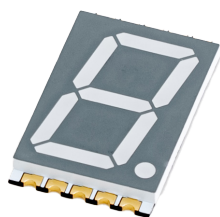


**0.56" Single digits
Super thin SMD
type display**



Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.		
OPS-S5612W-ST-1.5	OPS-S5611W-ST-1.5	3.0	170	-	InGaN
OPS-S5612SB-ST-1.5	OPS-S5611SB-ST-1.5	3.0	50	470	InGaN
OPS-S5612SPG-ST-1.5	OPS-S5611SPG-ST-1.5	3.0	400	525	InGaN
OPS-S5612SYG-ST-1.5	OPS-S5611SYG-ST-1.5	2.1	8	570	AlGaInP
OPS-S5612SY-ST-1.5	OPS-S5611SY-ST-1.5	2.1	40	590	AlGaInP
OPS-S5612SA-ST-1.5	OPS-S5611SA-ST-1.5	2.0	40	610	AlGaInP
OPS-S5612SE-ST-1.5	OPS-S5611SE-ST-1.5	2.1	50	625	AlGaInP
OPS-S5612LR-ST-1.5	OPS-S5611LR-ST-1.5	2.1	5	640	AlGaInP

Package Dimension / Internal Circuit



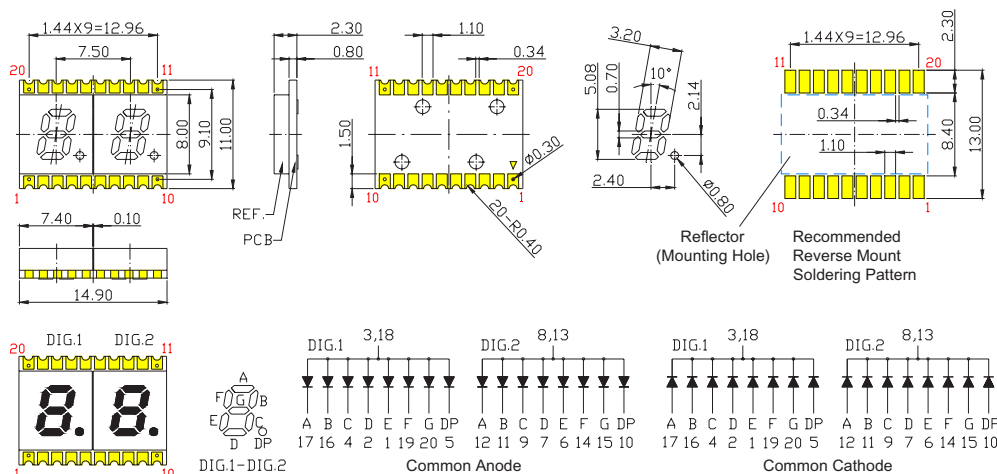
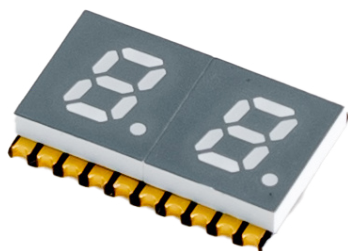
0.70" Single digits Super thin SMD type display



Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.	
OPS-S7010W-ST-1.5	OPS-S7011W-ST-1.5	3.0	170	- InGaN
OPS-S7010SB-ST-1.5	OPS-S7011SB-ST-1.5	3.0	50	470 InGaN
OPS-S7010SPG-ST-1.5	OPS-S7011SPG-ST-1.5	3.0	400	525 InGaN
OPS-S7010SYG-ST-1.5	OPS-S7011SYG-ST-1.5	2.1	8	570 AlGaInP
OPS-S7010SY-ST-1.5	OPS-S7011SY-ST-1.5	2.1	40	590 AlGaInP
OPS-S7010SA-ST-1.5	OPS-S7011SA-ST-1.5	2.0	40	610 AlGaInP
OPS-S7010SE-ST-1.5	OPS-S7011SE-ST-1.5	2.1	50	625 AlGaInP
OPS-S7010LR-ST-1.5	OPS-S7011LR-ST-1.5	2.1	5	640 AlGaInP



Package Dimension / Internal Circuit



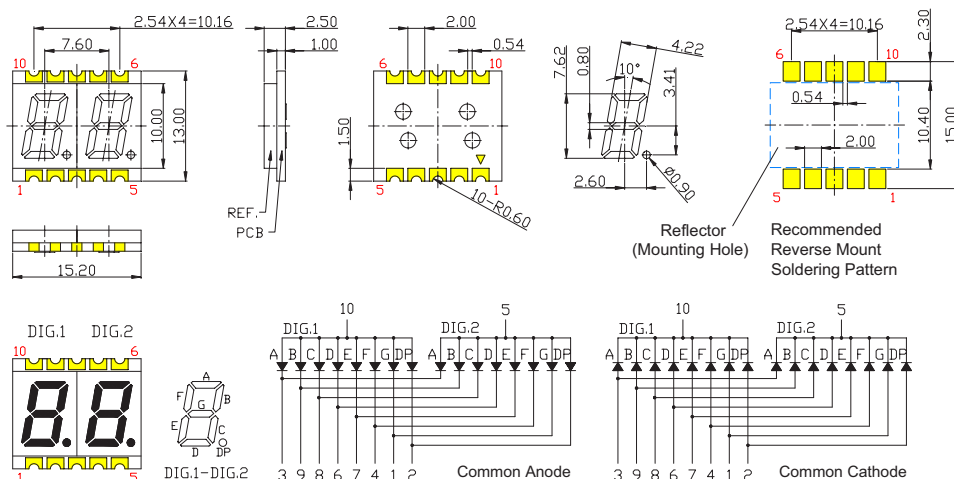
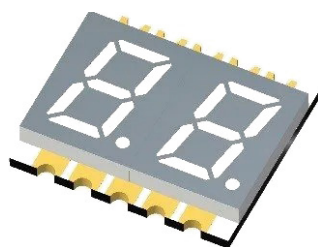
0.20" Dual digits Super thin SMD type display



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.		
OPS-D2040W3-ST	OPS-D2041W3-ST	3.0	130	-	InGaN
OPS-D2040SB-ST	OPS-D2041SB-ST	3.0	30	470	InGaN
OPS-D2040SPG-ST	OPS-D2041SPG-ST	3.0	220	525	InGaN
OPS-D2040SYG-ST	OPS-D2041SYG-ST	2.1	8	570	AlGaInP
OPS-D2040SY-ST	OPS-D2041SY-ST	2.1	25	590	AlGaInP
OPS-D2040SA-ST	OPS-D2041SA-ST	2.0	25	610	AlGaInP
OPS-D2040SE-ST	OPS-D2041SE-ST	2.1	30	625	AlGaInP
OPS-D2040LR-ST	OPS-D2041LR-ST	2.1	5	640	AlGaInP

Package Dimension / Internal Circuit



0.30" Dual digits Super thin SMD type display

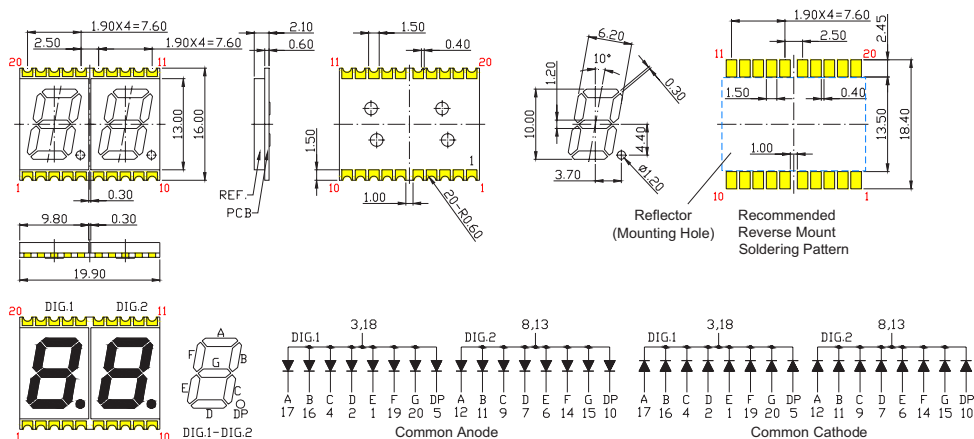
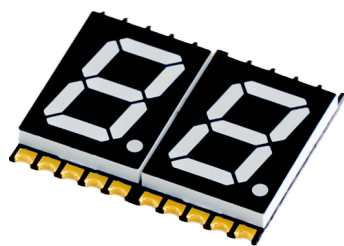


Inquiry

Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.		
OPS-D3050W3-ST	OPS-D3051W3-ST	3.0	120	-	InGaN
OPS-D3050SB-ST	OPS-D3051SB-ST	3.0	50	470	InGaN
OPS-D3050SPG-ST	OPS-D3051SPG-ST	3.0	250	525	InGaN
OPS-D3050SYG-ST	OPS-D3051SYG-ST	2.1	8	570	AlGaInP
OPS-D3050SY-ST	OPS-D3051SY-ST	2.1	40	590	AlGaInP
OPS-D3050SA-ST	OPS-D3051SA-ST	2.0	40	610	AlGaInP
OPS-D3050SE-ST	OPS-D3051SE-ST	2.1	50	625	AlGaInP
OPS-D3050LR-ST	OPS-D3051LR-ST	2.1	6	640	AlGaInP



Package Dimension / Internal Circuit



0.39" Dual digits Super thin SMD type display



Inquiry

Part Number

Common Anode	Common Cathode
OPS-D391-2W-ST	OPS-D391-3W-ST
OPS-D391-2SB-ST	OPS-D391-3SB-ST
OPS-D391-2SPG-ST	OPS-D391-3SPG-ST
OPS-D391-2SYG-ST	OPS-D391-3SYG-ST
OPS-D391-2SY-ST	OPS-D391-3SY-ST
OPS-D391-2SA-ST	OPS-D391-3SA-ST
OPS-D391-2SE-ST	OPS-D391-3SE-ST
OPS-D391-2LR-ST	OPS-D391-3LR-ST

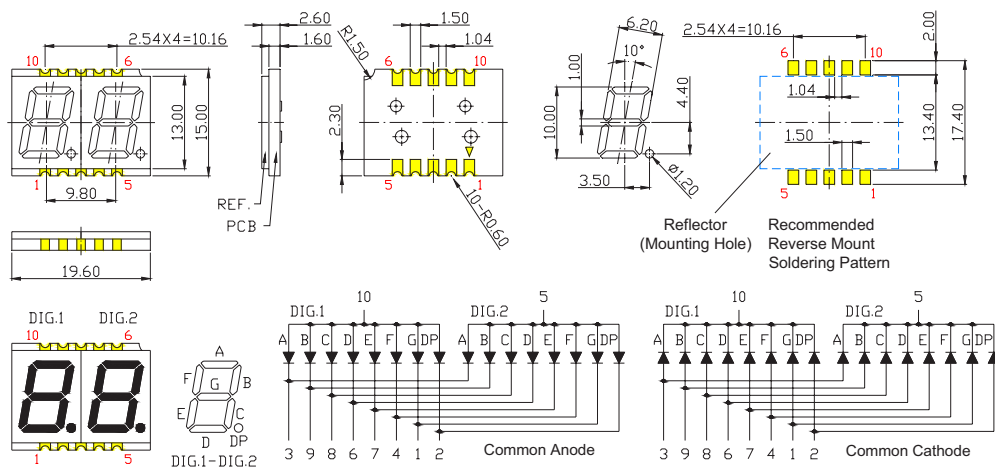
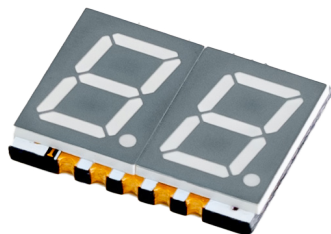
IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	220
3.0	70
3.0	420
2.1	12
2.1	60
2.0	60
2.1	70
2.1	8

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



0.39" Dual digits Super thin SMD type display



Inquiry

Part Number

Common Anode	Common Cathode
OPS-D3920SB-ST	OPS-D3921SB-ST
OPS-D3920SPG-ST	OPS-D3921SPG-ST
OPS-D3920YG-ST	OPS-D3921YG-ST
OPS-D3920LY-ST	OPS-D3921LY-ST
OPS-D3920LA-ST	OPS-D3921LA-ST
OPS-D3920LE-ST	OPS-D3921LE-ST

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	30
3.0	220
2.1	10
2.1	15
2.0	15
2.1	15

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

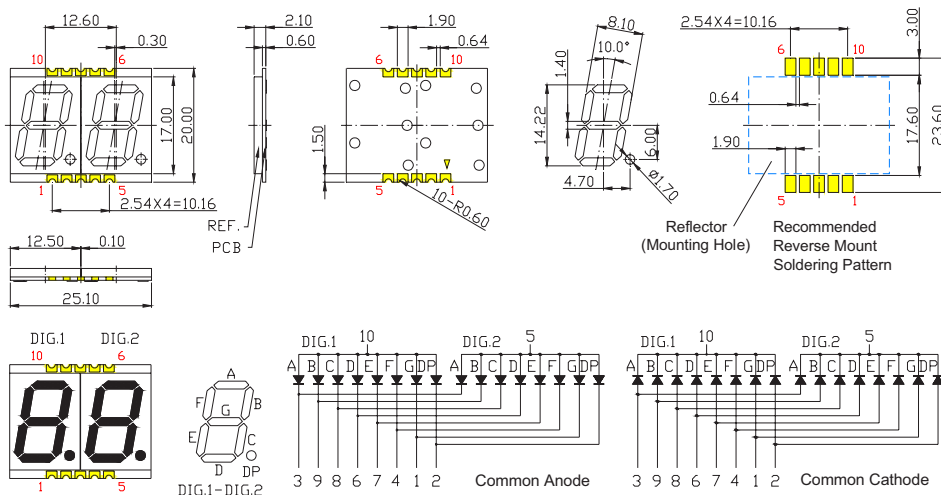
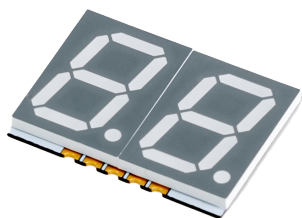
470	InGaN
525	InGaN
570	AlGaInP
590	AlGaInP
610	AlGaInP
625	AlGaInP



Super Thin Digit Display



Package Dimension / Internal Circuit



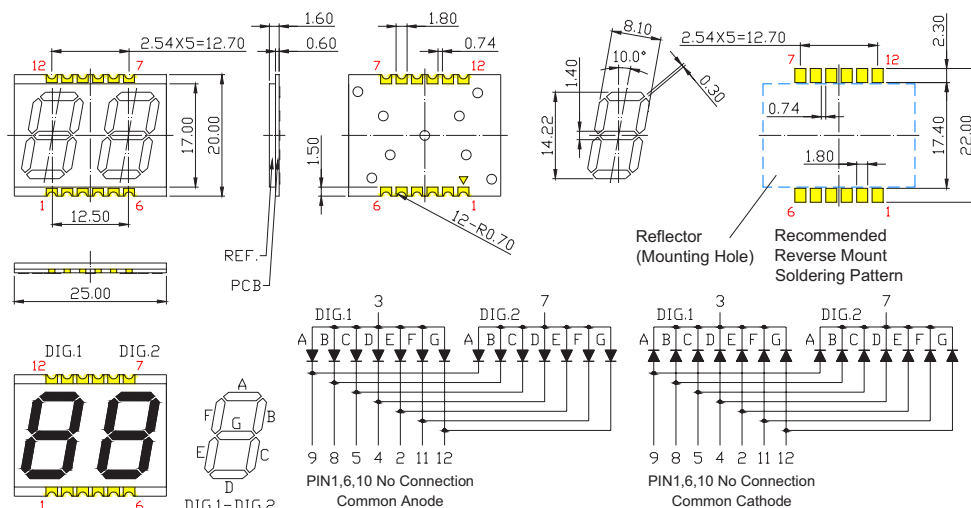
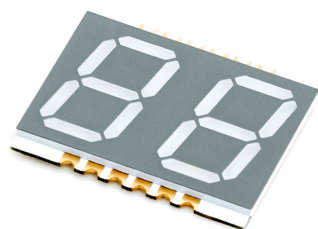
0.56" Dual digits Super thin SMD type display



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.		
OPS-D5612W-ST-1.5	OPS-D5611W-ST-1.5	3.0	170	-	InGaN
OPS-D5612SB-ST-1.5	OPS-D5611SB-ST-1.5	3.0	50	470	InGaN
OPS-D5612SPG-ST-1.5	OPS-D5611SPG-ST-1.5	3.0	400	525	InGaN
OPS-D5612SYG-ST-1.5	OPS-D5611SYG-ST-1.5	2.1	8	570	AlGaInP
OPS-D5612SY-ST-1.5	OPS-D5611SY-ST-1.5	2.1	40	590	AlGaInP
OPS-D5612SA-ST-1.5	OPS-D5611SA-ST-1.5	2.0	40	610	AlGaInP
OPS-D5612SE-ST-1.5	OPS-D5611SE-ST-1.5	2.1	50	625	AlGaInP
OPS-D5612LR-ST-1.5	OPS-D5611LR-ST-1.5	2.1	5	640	AlGaInP

Package Dimension / Internal Circuit



0.56" Dual digits Super thin SMD type display



Inquiry

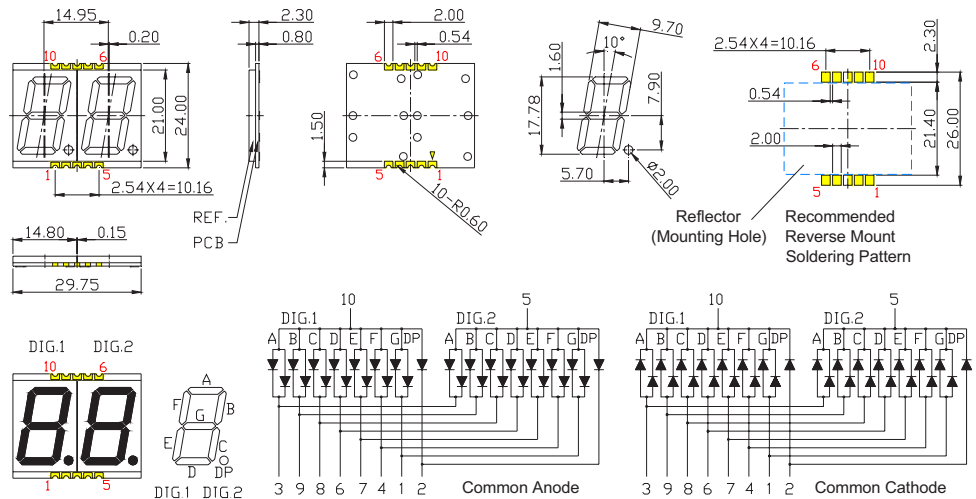
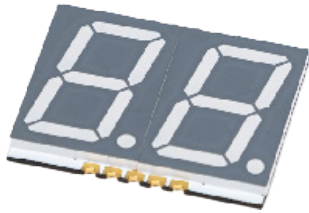
Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.		
OPS-D56A0SB-ST-1.0	OPS-D56A1SB-ST-1.0	3.0	30	470	InGaN
OPS-D56A0SPG-ST-1.0	OPS-D56A1SPG-ST-1.0	3.0	220	525	InGaN
OPS-D56A0YG-ST-1.0	OPS-D56A1YG-ST-1.0	2.1	10	570	AlGaInP
OPS-D56A0LY-ST-1.0	OPS-D56A1LY-ST-1.0	2.1	15	590	AlGaInP
OPS-D56A0LA-ST-1.0	OPS-D56A1LA-ST-1.0	2.0	15	610	AlGaInP
OPS-D56A0LE-ST-1.0	OPS-D56A1LE-ST-1.0	2.1	15	625	AlGaInP



Super Thin Digit Display



Package Dimension / Internal Circuit



0.70" Dual digits Super thin SMD type display



Inquiry

Part Number

Common Anode	Common Cathode
OPS-D7010W-ST-1.5	OPS-D7011W-ST-1.5
OPS-D7010SB-ST-1.5	OPS-D7011SB-ST-1.5
OPS-D7010SPG-ST-1.5	OPS-D7011SPG-ST-1.5
OPS-D7010SYG-ST-1.5	OPS-D7011SYG-ST-1.5
OPS-D7010SY-ST-1.5	OPS-D7011SY-ST-1.5
OPS-D7010SA-ST-1.5	OPS-D7011SA-ST-1.5
OPS-D7010SE-ST-1.5	OPS-D7011SE-ST-1.5
OPS-D7010LR-ST-1.5	OPS-D7011LR-ST-1.5

IF = 20 mA

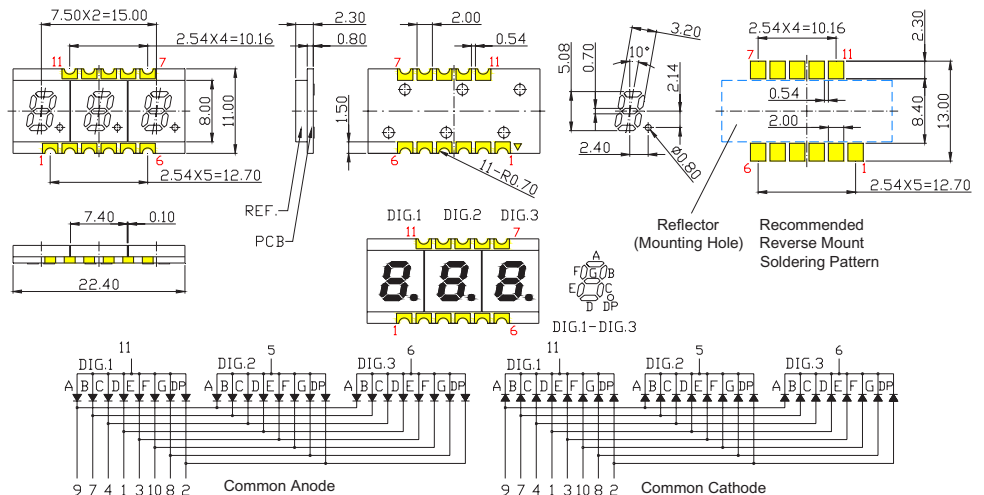
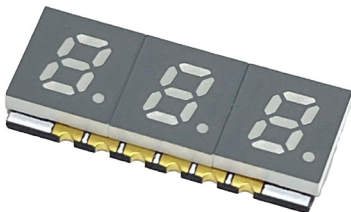
V _F (V) Typ.	I _V (mcd) Typ.
----------------------------	------------------------------

3.0	170
3.0	50
3.0	400
2.1	8
2.1	40
2.0	40
2.1	50
2.1	5

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



0.20" Triple digits Super thin SMD type display



Inquiry

Part Number

Common Anode	Common Cathode
OPS-T2040W3-ST	OPS-T2041W3-ST
OPS-T2040SB-ST	OPS-T2041SB-ST
OPS-T2040SPG-ST	OPS-T2041SPG-ST
OPS-T2040SYG-ST	OPS-T2041SYG-ST
OPS-T2040SY-ST	OPS-T2041SY-ST
OPS-T2040SA-ST	OPS-T2041SA-ST
OPS-T2040SE-ST	OPS-T2041SE-ST
OPS-T2040LR-ST	OPS-T2041LR-ST

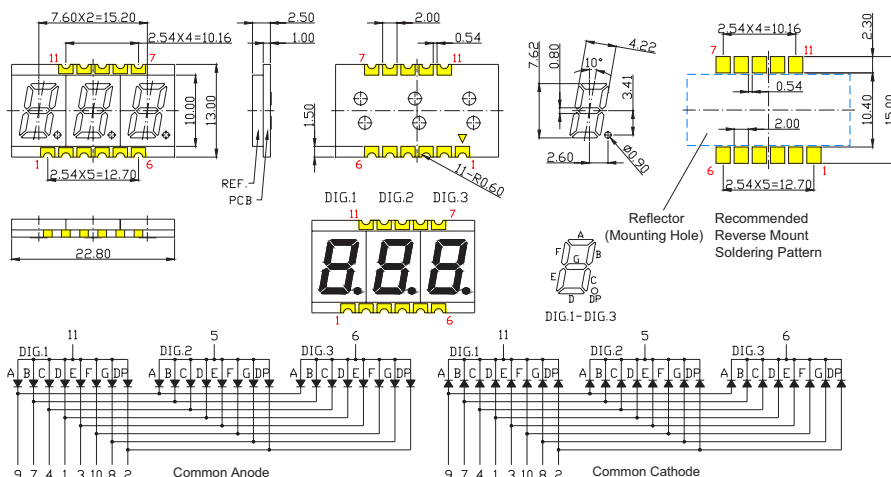
IF = 20 mA

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

3.0	130
3.0	30
3.0	220
2.1	8
2.1	25
2.0	25
2.1	30
2.1	5

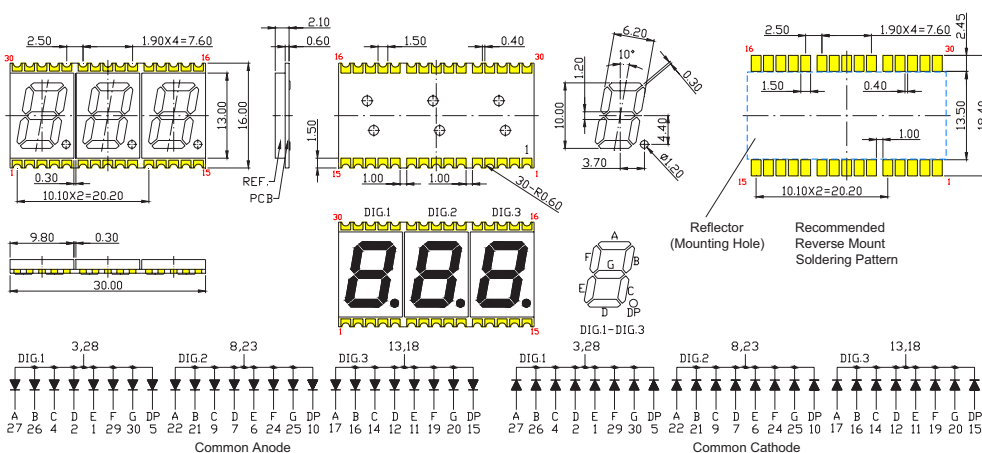
Wavelength(nm) λ_d @ IF = 20mA (Dice materials)

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



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.		
OPS-T3050W3-ST	OPS-T3051W3-ST	3.0	120	-	InGaN
OPS-T3050SB-ST	OPS-T3051SB-ST	3.0	50	470	InGaN
OPS-T3050SPG-ST	OPS-T3051SPG-ST	3.0	250	525	InGaN
OPS-T3050SYG-ST	OPS-T3051SYG-ST	2.1	8	570	AlGaInP
OPS-T3050SY-ST	OPS-T3051SY-ST	2.1	40	590	AlGaInP
OPS-T3050SA-ST	OPS-T3051SA-ST	2.0	40	610	AlGaInP
OPS-T3050SE-ST	OPS-T3051SE-ST	2.1	50	625	AlGaInP
OPS-T3050LR-ST	OPS-T3051LR-ST	2.1	6	640	AlGaInP



Inquiry

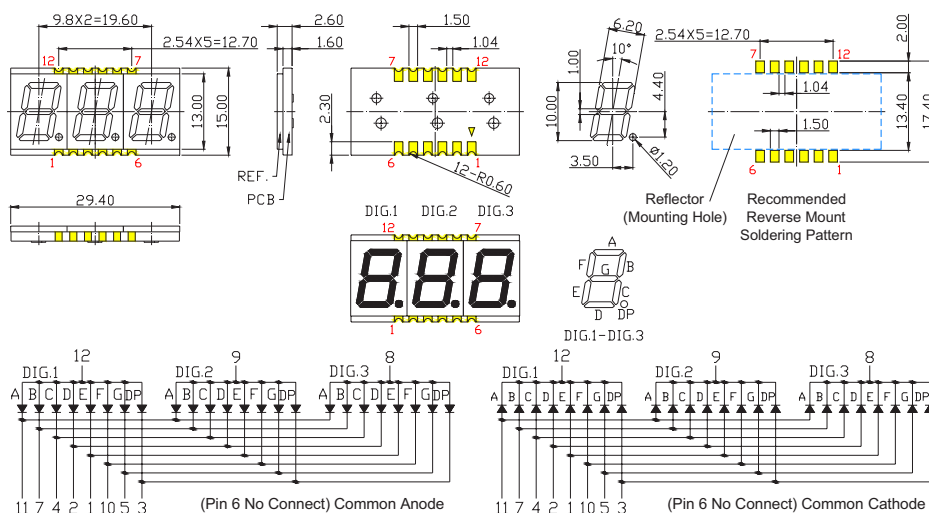
Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V _F (V) Typ.	I _f (mcd) Typ.		
OPS-T391-2W-ST	OPS-T391-3W-ST	3.0	220	-	InGaN
OPS-T391-2SB-ST	OPS-T391-3SB-ST	3.0	70	470	InGaN
OPS-T391-2SPG-ST	OPS-T391-3SPG-ST	3.0	420	525	InGaN
OPS-T391-2SYG-ST	OPS-T391-3SYG-ST	2.1	12	570	AlGaInP
OPS-T391-2SY-ST	OPS-T391-3SY-ST	2.1	60	590	AlGaInP
OPS-T391-2SA-ST	OPS-T391-3SA-ST	2.0	60	610	AlGaInP
OPS-T391-2SE-ST	OPS-T391-3SE-ST	2.1	70	625	AlGaInP
OPS-T391-2LR-ST	OPS-T391-3LR-ST	2.1	8	640	AlGaInP



Super Thin Digit Display



Package Dimension / Internal Circuit



0.39" Triple digits Super thin SMD type display



Inquiry

Part Number

Common Anode	Common Cathode
OPS-T3920SB-ST	OPS-T3921SB-ST
OPS-T3920SPG-ST	OPS-T3921SPG-ST
OPS-T3920YG-ST	OPS-T3921YG-ST
OPS-T3920LY-ST	OPS-T3921LY-ST
OPS-T3920LA-ST	OPS-T3921LA-ST
OPS-T3920LE-ST	OPS-T3921LE-ST

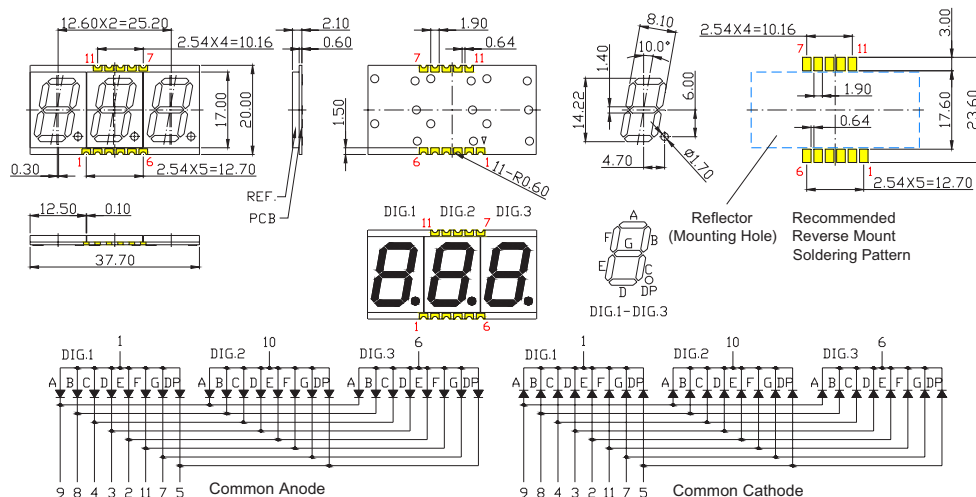
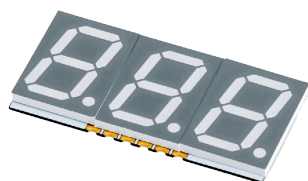
IF = 20 mA

V _F (V) Typ.	I _F (mcd) Typ.
3.0	30
3.0	220
2.1	10
2.1	15
2.0	15
2.1	15

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

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

Package Dimension / Internal Circuit



0.56" Triple digits Super thin SMD type display



Inquiry

Part Number

Common Anode	Common Cathode
OPS-T5612W-ST-1.5	OPS-T5611W-ST-1.5
OPS-T5612SB-ST-1.5	OPS-T5611SB-ST-1.5
OPS-T5612SPG-ST-1.5	OPS-T5611SPG-ST-1.5
OPS-T5612SYG-ST-1.5	OPS-T5611SYG-ST-1.5
OPS-T5612SY-ST-1.5	OPS-T5611SY-ST-1.5
OPS-T5612SA-ST-1.5	OPS-T5611SA-ST-1.5
OPS-T5612SE-ST-1.5	OPS-T5611SE-ST-1.5
OPS-T5612LR-ST-1.5	OPS-T5611LR-ST-1.5

IF = 20 mA

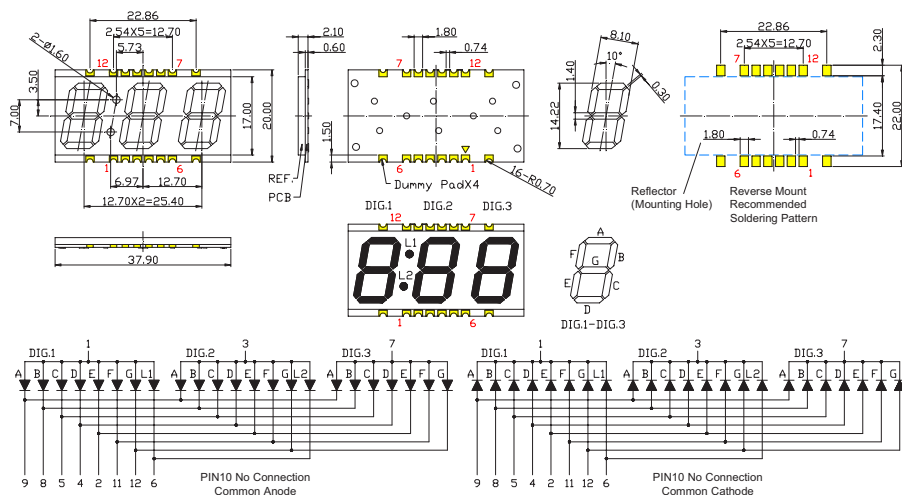
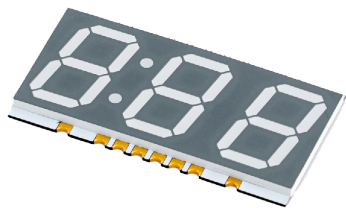
V _F (V) Typ.	I _F (mcd) Typ.
3.0	170
3.0	50
3.0	400
2.1	8
2.1	40
2.0	40
2.1	50
2.1	5

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" Triple digits Super thin SMD type display



Inquiry

Part Number

Common Anode	Common Cathode
OPS-T56B0W-ST-1.5	OPS-T56B1W-ST-1.5
OPS-T56B0SB-ST-1.5	OPS-T56B1SB-ST-1.5
OPS-T56B0SPG-ST-1.5	OPS-T56B1SPG-ST-1.5
OPS-T56B0SYG-ST-1.5	OPS-T56B1SYG-ST-1.5
OPS-T56B0SY-ST-1.5	OPS-T56B1SY-ST-1.5
OPS-T56B0SA-ST-1.5	OPS-T56B1SA-ST-1.5
OPS-T56B0SE-ST-1.5	OPS-T56B1SE-ST-1.5
OPS-T56B0LR-ST-1.5	OPS-T56B1LR-ST-1.5

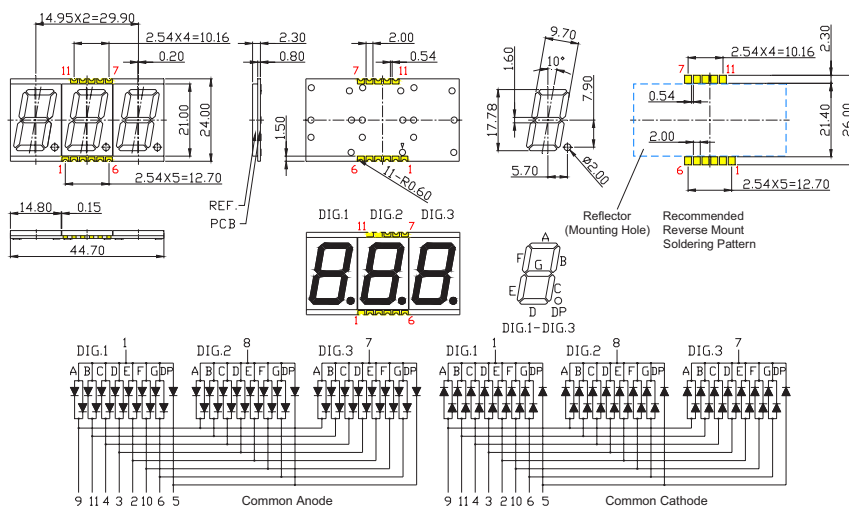
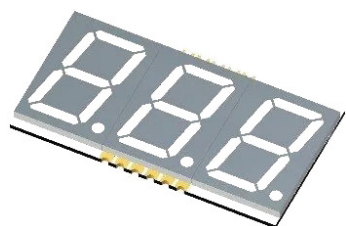
IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	170
3.0	50
3.0	400
2.1	8
2.1	40
2.0	40
2.1	50
2.1	5

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



0.70" Triple digits Super thin SMD type display



Inquiry

Part Number

Common Anode	Common Cathode
OPS-T7010W-ST-1.5	OPS-T7011W-ST-1.5
OPS-T7010SB-ST-1.5	OPS-T7011SB-ST-1.5
OPS-T7010SPG-ST-1.5	OPS-T7011SPG-ST-1.5
OPS-T7010SYG-ST-1.5	OPS-T7011SYG-ST-1.5
OPS-T7010SY-ST-1.5	OPS-T7011SY-ST-1.5
OPS-T7010SA-ST-1.5	OPS-T7011SA-ST-1.5
OPS-T7010SE-ST-1.5	OPS-T7011SE-ST-1.5
OPS-T7010LR-ST-1.5	OPS-T7011LR-ST-1.5

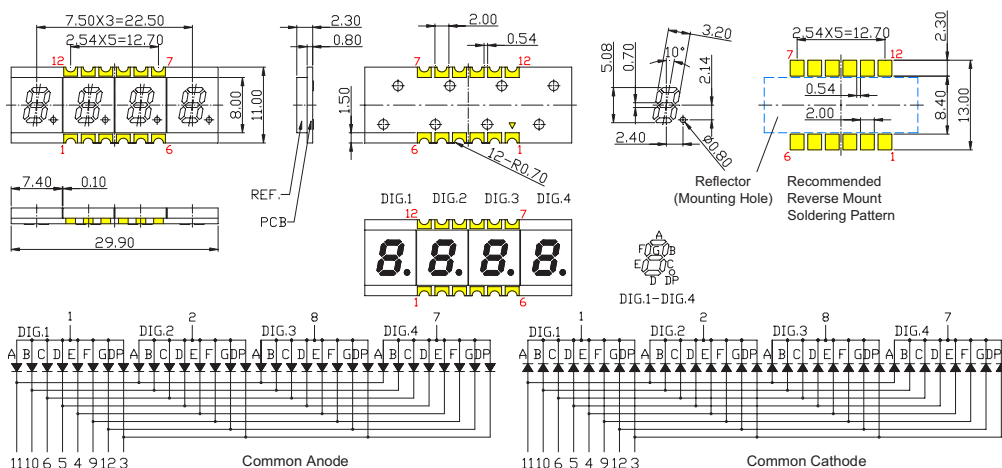
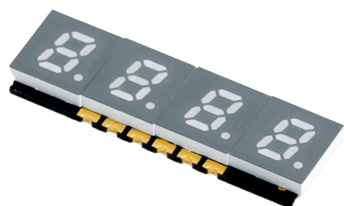
IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	170
3.0	50
3.0	400
2.1	8
2.1	40
2.0	40
2.1	50
2.1	5

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

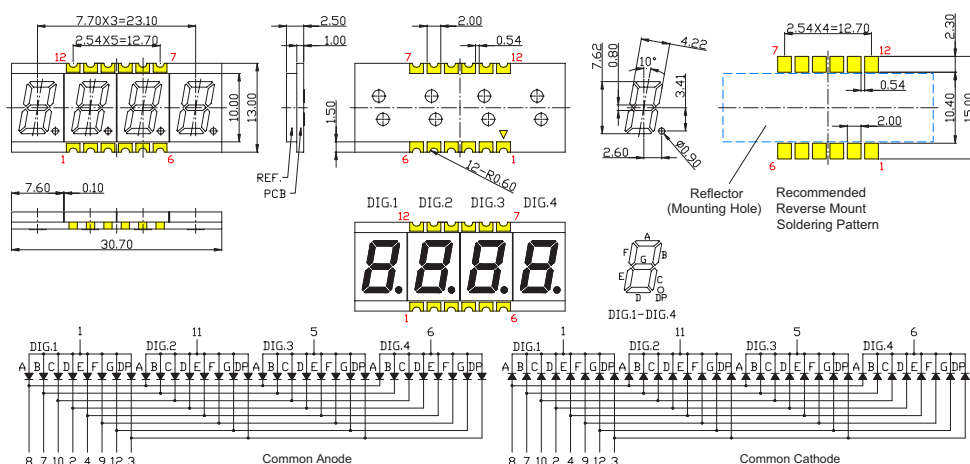
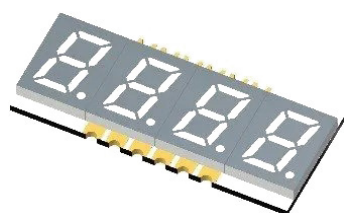


0.20" Quadruple digits Super thin SMD type display



Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.	
OPS-Q2040W3-ST	OPS-Q2041W3-ST	3.0	130	- InGaN
OPS-Q2040SB-ST	OPS-Q2041SB-ST	3.0	30	470 InGaN
OPS-Q2040SPG-ST	OPS-Q2041SPG-ST	3.0	220	525 InGaN
OPS-Q2040SYG-ST	OPS-Q2041SYG-ST	2.1	8	570 AlGaInP
OPS-Q2040SY-ST	OPS-Q2041SY-ST	2.1	25	590 AlGaInP
OPS-Q2040SA-ST	OPS-Q2041SA-ST	2.0	25	610 AlGaInP
OPS-Q2040SE-ST	OPS-Q2041SE-ST	2.1	30	625 AlGaInP
OPS-Q2040LR-ST	OPS-Q2041LR-ST	2.1	5	640 AlGaInP

Package Dimension / Internal Circuit



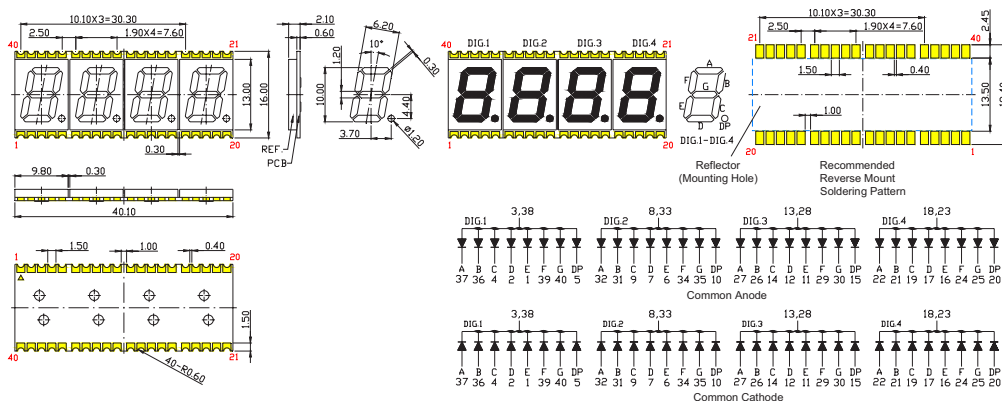
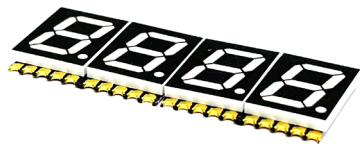
**0.30" Quadruple
digits Super thin
SMD type display**



Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.		
OPS-Q3050W3-ST	OPS-Q3051W3-ST	3.0	120	-	InGaN
OPS-Q3050SB-ST	OPS-Q3051SB-ST	3.0	50	470	InGaN
OPS-Q3050SPG-ST	OPS-Q3051SPG-ST	3.0	250	525	InGaN
OPS-Q3050SYG-ST	OPS-Q3051SYG-ST	2.1	8	570	AlGaInP
OPS-Q3050SY-ST	OPS-Q3051SY-ST	2.1	40	590	AlGaInP
OPS-Q3050SA-ST	OPS-Q3051SA-ST	2.0	40	610	AlGaInP
OPS-Q3050SE-ST	OPS-Q3051SE-ST	2.1	50	625	AlGaInP
OPS-Q3050LR-ST	OPS-Q3051LR-ST	2.1	6	640	AlGaInP



Package Dimension / Internal Circuit



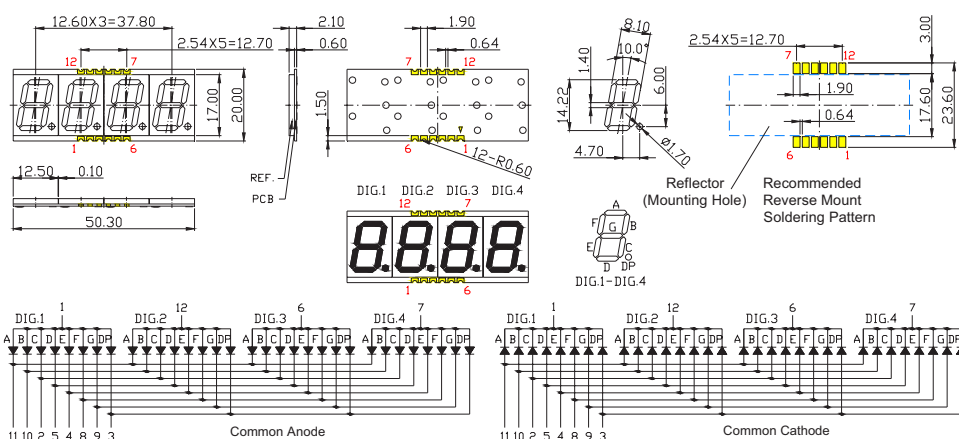
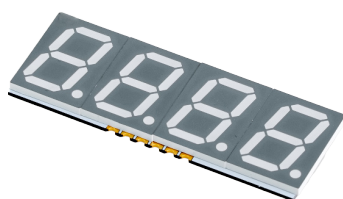
0.39" Quadruple digits Super thin SMD type display



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.		
OPS-Q391-2W-ST	OPS-Q391-3W-ST	3.0	220	-	InGaN
OPS-Q391-2SB-ST	OPS-Q391-3SB-ST	3.0	70	470	InGaN
OPS-Q391-2SPG-ST	OPS-Q391-3SPG-ST	3.0	420	525	InGaN
OPS-Q391-2SYG-ST	OPS-Q391-3SYG-ST	2.1	12	570	AlGaInP
OPS-Q391-2SY-ST	OPS-Q391-3SY-ST	2.1	60	590	AlGaInP
OPS-Q391-2SA-ST	OPS-Q391-3SA-ST	2.0	60	610	AlGaInP
OPS-Q391-2SE-ST	OPS-Q391-3SE-ST	2.1	70	625	AlGaInP
OPS-Q391-2LR-ST	OPS-Q391-3LR-ST	2.1	8	640	AlGaInP

Package Dimension / Internal Circuit



0.56" Quadruple digits Super thin SMD type display

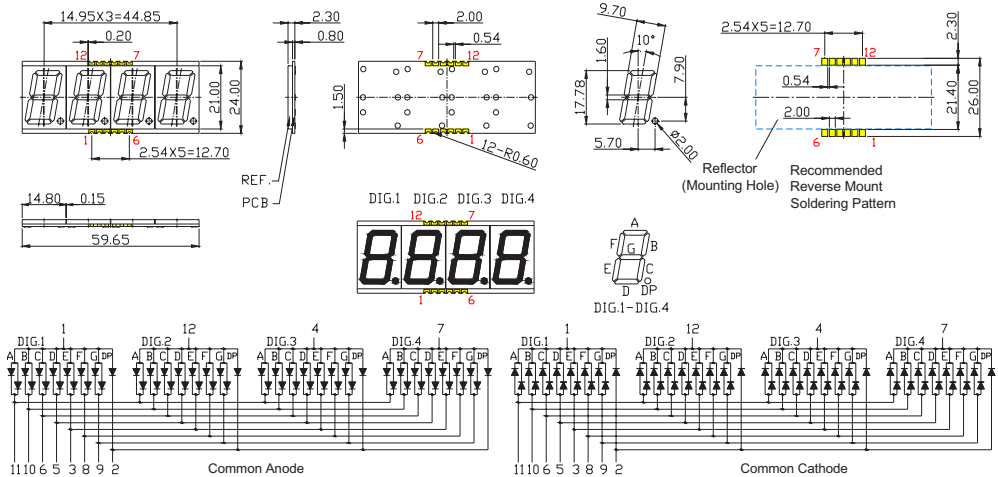
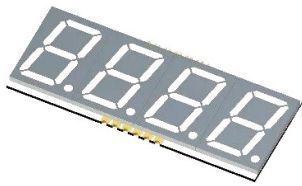


Inquiry

Part Number		IF = 20 mA		Wavelength(nm) λd @ IF = 20mA (Dice materials)	
Common Anode	Common Cathode	V _F (V) Typ.	I _V (mcd) Typ.		
OPS-Q5612W-ST-1.5	OPS-Q5611W-ST-1.5	3.0	170	-	InGaN
OPS-Q5612SB-ST-1.5	OPS-Q5611SB-ST-1.5	3.0	50	470	InGaN
OPS-Q5612SPG-ST-1.5	OPS-Q5611SPG-ST-1.5	3.0	400	525	InGaN
OPS-Q5612SYG-ST-1.5	OPS-Q5611SYG-ST-1.5	2.1	8	570	AlGaInP
OPS-Q5612SY-ST-1.5	OPS-Q5611SY-ST-1.5	2.1	40	590	AlGaInP
OPS-Q5612SA-ST-1.5	OPS-Q5611SA-ST-1.5	2.0	40	610	AlGaInP
OPS-Q5612SE-ST-1.5	OPS-Q5611SE-ST-1.5	2.1	50	625	AlGaInP
OPS-Q5612LR-ST-1.5	OPS-Q5611LR-ST-1.5	2.1	5	640	AlGaInP



Package Dimension / Internal Circuit



0.70" Quadruple digits Super thin SMD type display



Inquiry

Part Number

Common Anode	Common Cathode
OPS-Q7010W-ST-1.5	OPS-Q7011W-ST-1.5
OPS-Q7010SB-ST-1.5	OPS-Q7011SB-ST-1.5
OPS-Q7010SPG-ST-1.5	OPS-Q7011SPG-ST-1.5
OPS-Q7010SYG-ST-1.5	OPS-Q7011SYG-ST-1.5
OPS-Q7010SY-ST-1.5	OPS-Q7011SY-ST-1.5
OPS-Q7010SA-ST-1.5	OPS-Q7011SA-ST-1.5
OPS-Q7010SE-ST-1.5	OPS-Q7011SE-ST-1.5
OPS-Q7010LR-ST-1.5	OPS-Q7011LR-ST-1.5

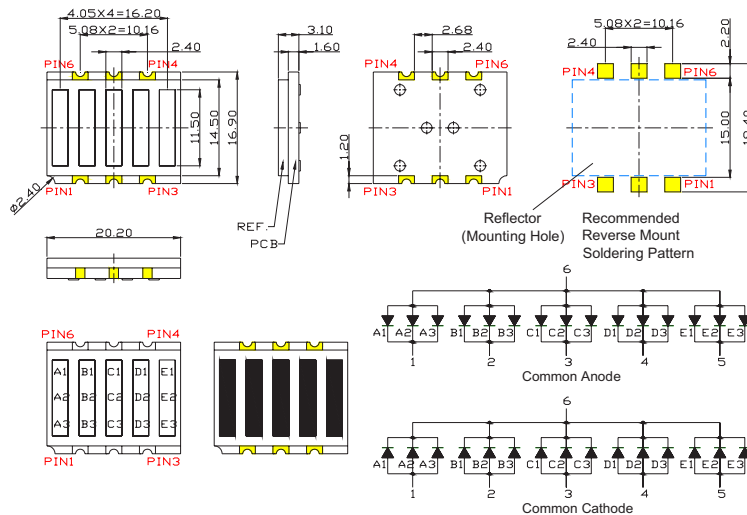
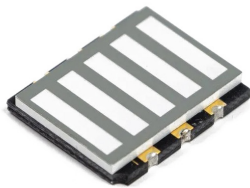
IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	170
3.0	50
3.0	400
2.1	8
2.1	40
2.0	40
2.1	50
2.1	5

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



Bar Graphic Super Thin SMD Display



Inquiry

Part Number

Common Anode	Common Cathode
OPS-B500W-UT	OPS-B501W-UT
OPS-B500SB-UT	OPS-B501SB-UT
OPS-B500SPG-UT	OPS-B501SPG-UT
OPS-B500SYG-UT	OPS-B501SYG-UT
OPS-B500LY-UT	OPS-B501LY-UT
OPS-B500LA-UT	OPS-B501LA-UT
OPS-B500LE-UT	OPS-B501LE-UT
OPS-B500LR-UT	OPS-B501LR-UT

IF = 20 mA

V _F (V) Typ.	I _V (mcd) Typ.
3.0	140
3.0	60
3.0	350
2.1	12
2.1	50
2.0	50
2.1	60
2.1	8

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

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



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