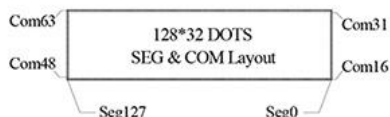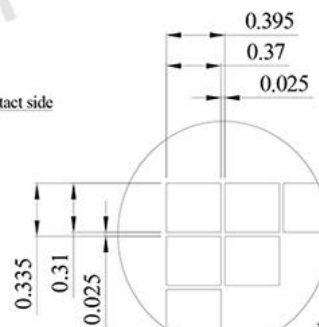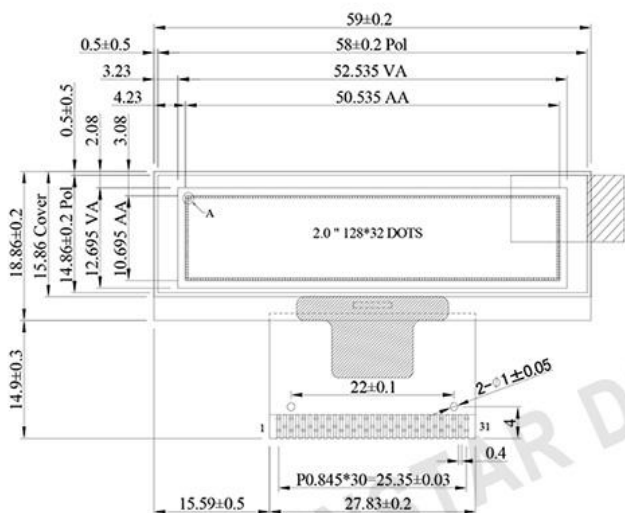www.winstar.com.tw

July, 2018

New Product - 2.0 inch COG OLED WEO012832K

WEO012832K is a 2.0 inch Graphic OLED display which is featured with COG structure with Hot Bar FPC; made of resolution 128x32 dots. This module is built in with SSD1315 IC, it supports 6800/8080 8-bit parallel, I2C, and 4 -Wire SPI interface, supply voltage for Logic 3V, 1/32 duty cycle.

WEO012832K is PIN to PIN compatible to TAB OLED WEX012832A which has been EOL since IC phased out. The customers do not need to change the hardware, but have to change the initial code. This module is suitable for industrial device, smart home application, medical instrument, etc. WEO012832K module can be operating at temperatures from -40℃ to +80℃; its storage temperatures range from -40℃ to +85℃. The released emitting color for this item is available in white; please see the below part numbers as reference.

White: WEO012832KWPP3N00000

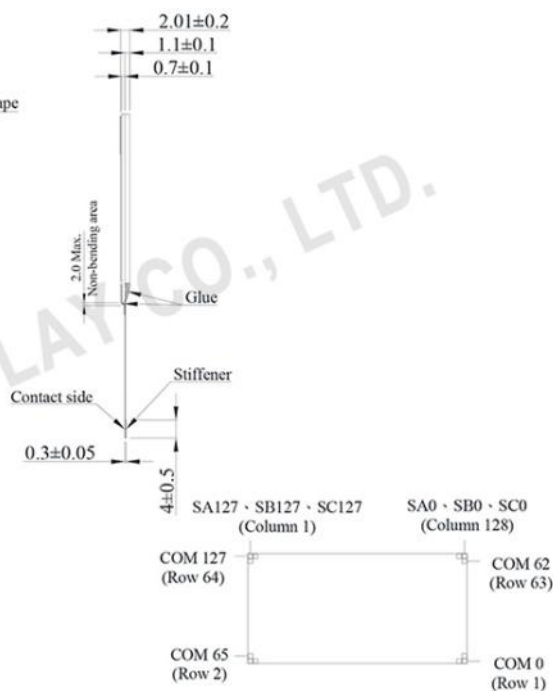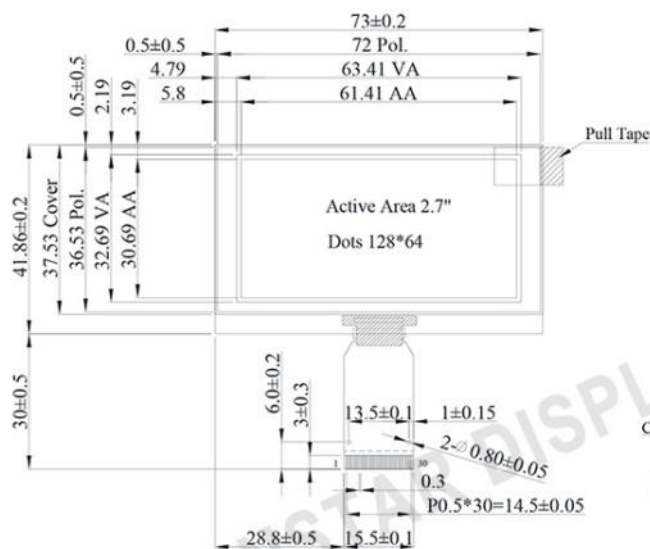| Item-WEO012832K	Dimension
Dot Matrix	128 x 32
Module dimension	59.0× 18.86 × 1.41 mm
Active Area	50.535×10.695 mm
Pixel Size	0.370 × 0.310 mm
Pixel Pitch	0.395 × 0.335 mm
Display Mode	Passive Matrix
Availble Display Color	White
Interface	8 Bits 6800 8000/ SPI/ I2C
Drive Duty	1/32 Duty
IC	SSD1315
Size	2.0 inch

2.7" COG OLED WEO012864U (with ZIF)

WEO012864U is a popular 2.7 inch Graphic OLED display which is featured with COG structure with ZIF; made of resolution 128x64 dots. This module is built in with SSD1357 IC, it supports 6800/8080 8-bit parallel, I2C, and 4-Wire SPI interface, supply voltage for Logic 3V, 1/64 duty cycle.

This WEO012864U model supports 16-bit grayscale image. It is ideal for wall / meter devices, home applications, financial-POS, Cloud/IoT system, intelligent technology devices, energy systems, communication systems, medical instrument, etc. WEO012864U module can be operating at temperatures from -40℃ to +80℃; its storage temperatures range from -40℃ to +85℃. The released emitting colors for this item are available in white and yellow; please see the below part numbers as reference.

White: WEO012864UWPP3N00000
Yellow: WEO012864ULPP3N00000

Item-WEO012864U	Dimension
Dot Matrix	128 x 64 Dots
Module dimension	73.0 × 41.86 × 2.01 mm
Active Area	61.41 × 30.69 mm
Pixel Size	0.45 × 0.45 mm
Pixel Pitch	0.48 × 0.48 mm
Display Mode	Passive Matrix
Display Color	White/Yellow
Drive Duty	1/64 Duty
IC	SSD1357
Interface	6800/8080/SPI/I2C
Size	2.7 inch

Detail DOTS Scale 1:10

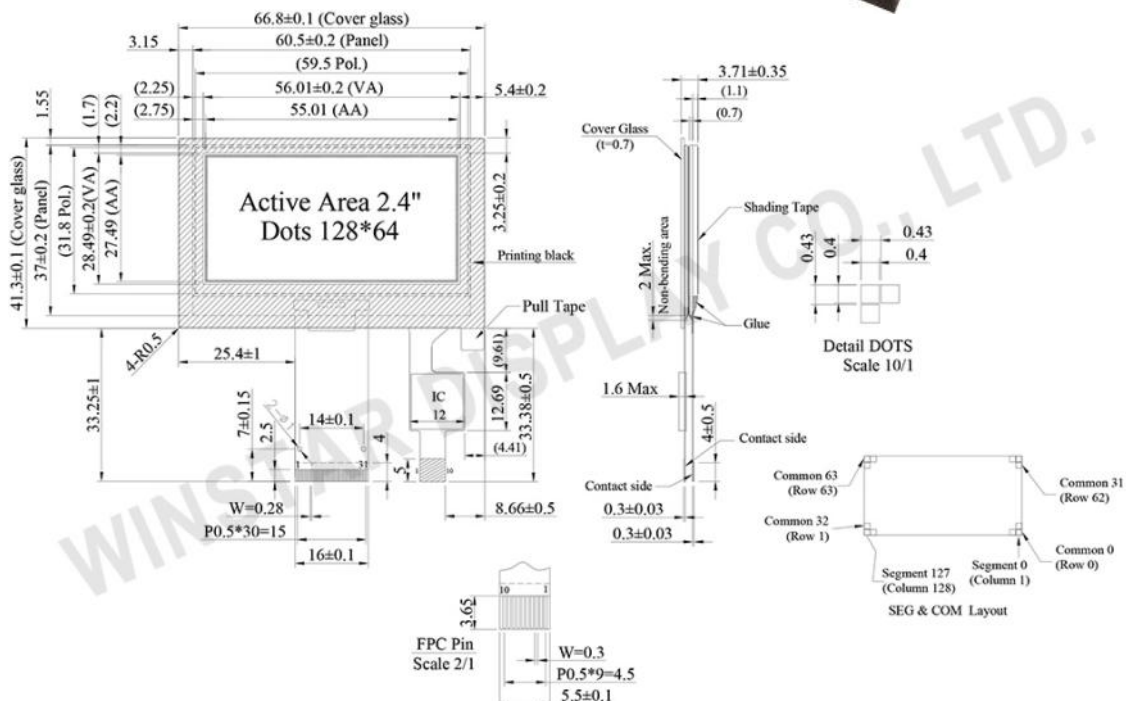# 2.42" COG OLED WEO012864G with Capacitive Touch Panel

WEO012864G is the most popular 2.42 inch Graphic OLED display with Capacitive Touch Panel on module; which is made of resolution 128x64 dots. This module is built in with SSD1309 IC, it supports 6800/8080 8-bit parallel, I2C, and 4-Wire SPI interface, supply voltage for Logic 3V, supply voltage for display 13V, 1/64 duty cycle. This WEO012864G model is also built in with GT911 touch panel IC on module, which supports I2C interface, one Detect Point for CTP.

This 2.42" WEO012864G with CTP model is ideal for smart home applications, intelligent technology devices, energy systems, meter devices, communication systems, medical instrument, etc. This module can be operating at temperatures from -20℃ to +70℃; its storage temperatures range from -30℃ to +80℃. The released emitting colors for this item are available in white and yellow; please see the below part numbers as reference.

White: WEO012864GWPP3D00000

Yellow: WEO012864GLPP3D00000

Item-WEO012864G+CTP	Dimension
Dot Matrix	128 x 64 dots
Module dimension	66.8 × 41.3 × 3.71mm
Active Area	55.01 × 27.49 mm
Pixel Size	0.40 × 0.40 mm
Pixel Pitch	0.43 × 0.43 mm
Display Mode	Passive Matrix
Available Color	White/Yellow
Interface	8 bits 6800/8080/ SPI/ I2C
Drive Duty	1/64 Duty
OLED IC	SSD1309
Size	2.42 inch
CTP IC	GT911
Detect Point	1
CTP Interface	I2C
CTP FW Version:	VER95
Surface	Normal Glare

Active Area 2.4"
Dots 128*64

Detail DOTS
Scale 10/1
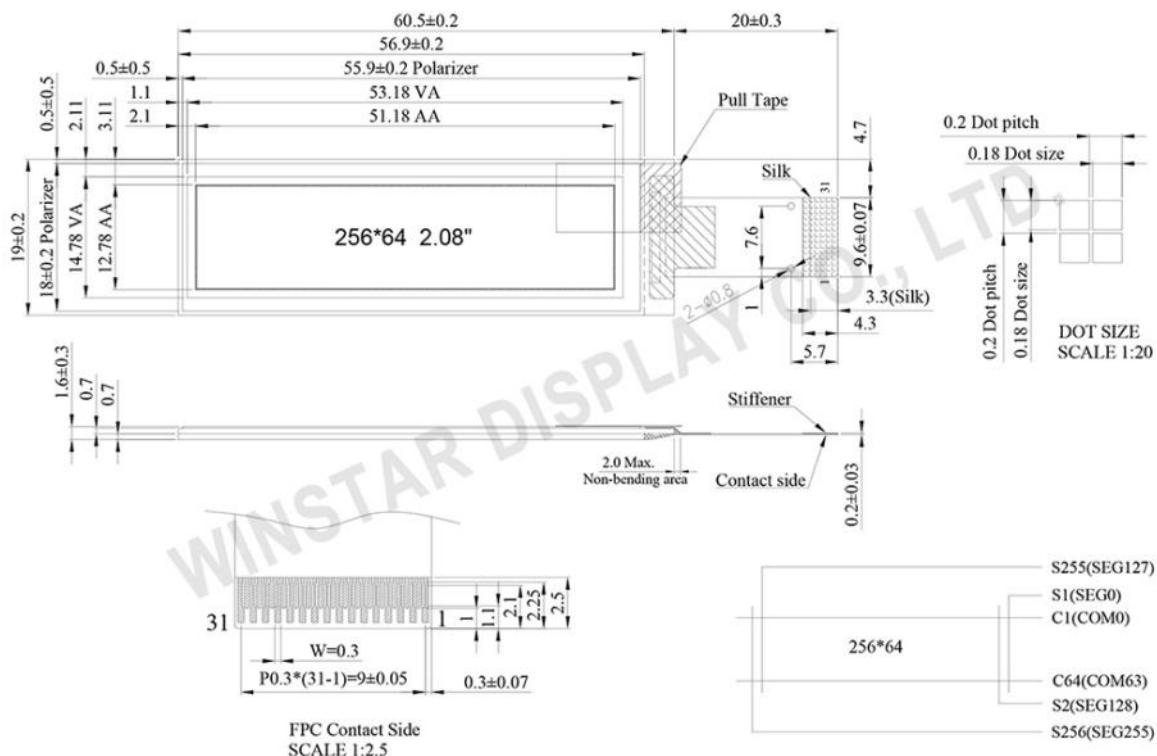
SEG & COM Layout

FPC Pin
Scale 2/1

Introduction - 2.08" COG OLED WEO025664A

WEO025664A is a new 2.08 inch Graphic PMOLED display which is featured with COG structure with ZIF FPC, made of resolution 256x64 dots. This module is built in with SSD1362 IC, it supports 6800/8080 8-bit parallel, I2C, and 4-Wire SPI interface, supply voltage for Logic 3V, 1/64 duty cycle.

This WEO025664A model supports 4-bit grayscale image. This module is ideal for wall / meter devices, home applications, financial-POS, Cloud/IoT system, intelligent technology devices, energy systems, communication systems, medical instrument, etc. WEO025664A module can be operating at temperatures from -40℃ to +80℃; its storage temperatures range from -40℃ to +85℃. The model is available in white color, if the customers need other emitting colors, please contact us.

White: WEO025664AWAP3N00000

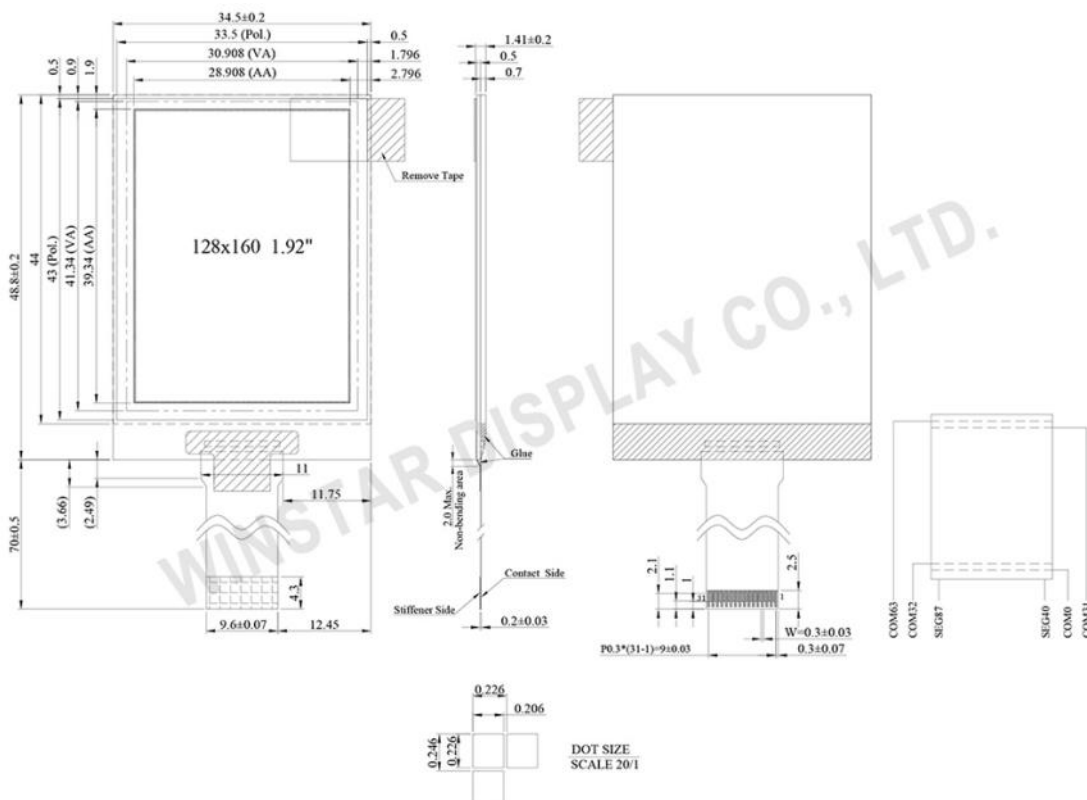| Item-WEO025664A	Dimension
Dot Matrix	256 x 64 Dots
Module dimension	60.5 x 19.0 x 1.6 mm
Active Area	51.18 x 12.78 mm
Pixel Size	0.18 x 0.18 mm
Pixel Pitch	0.2 x 0.2 mm
Display Mode	Passive Matrix
Display Color	White
Drive Duty	1/64 Duty
Gray Scale	4 Bits
IC	SSD1362Z
Interface	3-Wire or 4-Wire SPI/I2C/6800/8080
Size	2.08 inch

Introduction - 1.92" COG OLED WEO160128A

WEO160128A is 1.92 inch high resolution Passive Matrix OLED display module. This OLED display is featured with COG structure, made of resolution 160x128 dots. This module is built in with SH1108 IC, it supports 6800/8080 8-bit parallel, I2C, and 4-Wire SPI interface, supply voltage for Logic 3V, Supply Voltage for Display 12V, 1/128 duty cycle.

This module is ideal for industrial control equipment, smart home applications, intelligent technology devices, medical instrument, etc. WEO160128A module can be operating at temperatures from -40℃ to +80℃; its storage temperatures range from -40℃ to +85℃. The model is available in white color, available part number as below:

White: WEO160128AWPP3N00000

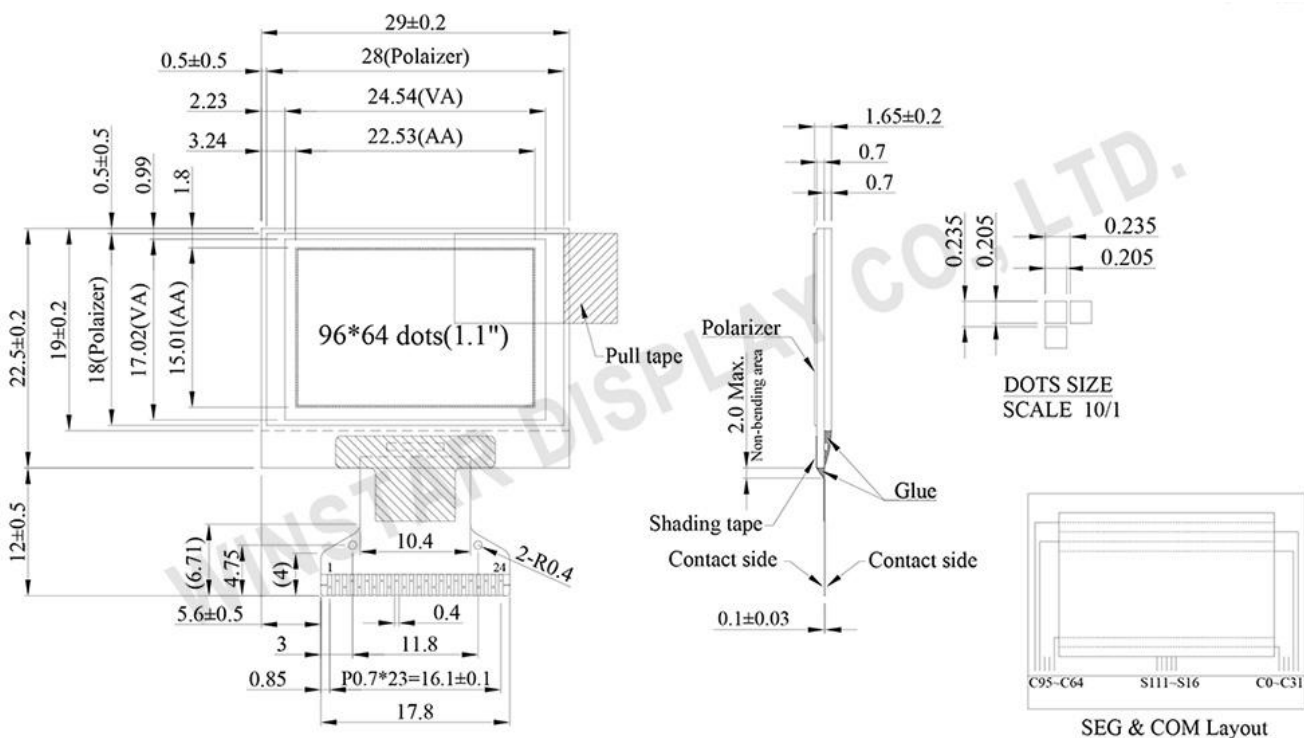| Item-WEO160128A	Dimension
Dot Matrix	128×160 Dots
Module dimension	$34.5 \times 48.8 \times 1.41$
Active Area	28.908×39.34
Pixel Size	0.206×0.226
Pixel Pitch	0.226×0.246
Display Mode	Passive Matrix
Display Color	White
Drive Duty	1/128 Duty
IC	SH1108
Interface	6800/8080/I2C/SPI
Size	1.92 inch

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1.1" COG OLED WEO009664B Hot Bar FPC Version

Winstar released a Hot Bar FPC version for WEO009664B model. This is a 1.1 inch passive matrix OLED display module which is made of 96x64 dots with Hot Bar FPC. The WEO009664B-Hotbar version is also built in with SSD1327 IC, it supports 6800/8080 8-bit parallel, I2C, and 4-Wire SPI interface, 3V power supply, 1/64 duty cycle and 16-bit gray scale. This 1.1" WEO009664B-Hotbar model can be regarded as an alternative of 1.1" TAB WEX009664A/B model which had been EOL in 2017. These models have similar Active Area size and having same diagonal size of 1.1 inch.

The OLED display which is ultra thin and no need of backlight; it's lightweight and low power consumption. It is suitable for portable device, personal care appliance, health device, meter device, etc. The released emitting color for this item is available in yellow. WEO009664B module can be operating at temperatures from -40℃ to +80℃; its storage temperatures range from -40℃ to +85℃.

Yellow: WEO009664BLAP3N00H00

Item-WEO009664B-Hotbar	Dimension
Dot Matrix	96 x 64 Dots
Module dimension	29.00 x 22.50 x 1.65
Active Area	22.53 x 15.01
Pixel Size	0.205 x 0.205
Pixel Pitch	0.235 x 0.235
Display Mode	Passive Matrix
Display Color	Yellow
Drive Duty	1/64 Duty
IC	SSD1327
Interface	6800/8080/I2C/4 wire SPI
Size	1.1 inch

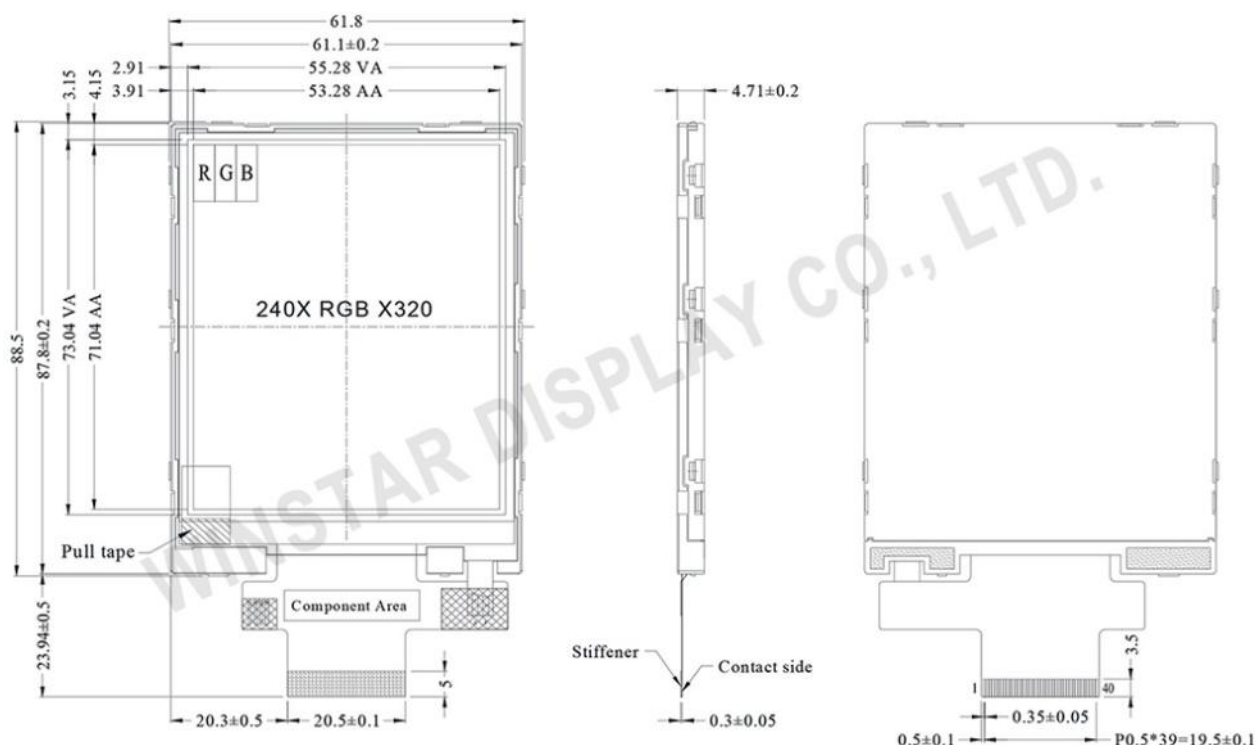DOTS SIZE SCALE 10/1

SEG & COM Layout

Introduction - 3.5 inch IPS TFT WF35WSWAJDNN0

WF35WSWAJDNN0 is a 3.5 inch High Brightness version TFT display with IPS great angle-visibility. This IPS TFT display is featured with 240x320 resolution and built in with HX8347-A IC; it supports MCU 8/16/18-bit interface, with high brightness 1000 nits (typical value).

This 3.5 inch TFT LCD module is portrait mode with IPS (In-Plane Switching) Panel which having the advantages of wider viewing angle of Left:89 / Right:89 / Up:89 / Down:89 degree (typical). WF35WSWAJDNN0 module can be operating at temperatures from -30℃ to +80℃; its storage temperatures range from -30℃ to +80℃.

WF35WSWAJDNN0	Dimension
Size	3.5 inch
Dot Matrix	240 x RGBx 320 TFT
Module dimension	61.8 x88.5 x 4.71mm
Active area	53.28 x 71.04 mm
LCD type	TFT, Normally Black, Transmissive
View Direction	IPS
Aspect Ratio	Portrait
TFT Driver IC	HX8347-A Or Equivalent
TFT Interface	MCU 8/16/18-bit
Backlight Type	LED, Normally White
Touch Panel	Without TP
Surface	Anti-Glare

Introduction - 0.96 inch IPS TFT WF0096ATYAA3DNN0

WF0096ATYAA3DNN0 is a 0.96 inch IPS TFT-LCD display module, resolution 80 x 160 pixels. This 0.96" TFT module is built-in with ST7735S controller IC, it supports 4-wire SPI interface, supply voltage (VCC) range is from 3.0V to 3.6V, with brightness 500 nits (typical value), contrast ratio 800.

This 0.96 inch TFT LCD module is portrait mode with IPS (In-Plane Switching) Panel which having the advantages of wider viewing angle of Left:80 / Right:80 / Up:80 / Down:80 degree (typical) and having 2:1 aspect ratio. It is ideal for wearable devices, medical devices, etc. This module can be operating at temperatures from -20℃ to +70℃; its storage temperatures range from -30℃ to +80℃.

WF0096ATYAA3DNN0	Dimension
Size	0.96 inch
Dot Matrix	80 x RGB x 160(TFT)
Module dimension	13.5(W) x 27.95(H) x 1.40(D)
Active area	10.8 x 21.696 mm
Dot pitch	0.135 x 0.1356 mm
LCD type	TFT, Normally black, Transmissive
Viewing Angle	80/80/80/80
Aspect Ratio	1:2
IC	ST7735S
Backlight Type	LED, Normally White
With /Without TP	Without TP
Surface	Glare