

TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



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SPECIFICATION

MODULE NO.: WF70C4TIBGDAN0#

General Specifications

Item	Dimension	Unit
Size	7.0	inch
Dot Matrix	800 x RGBx480(TFT)	dots
Module dimension	181.2(W)x 105.40(H) x 9.7(D)	mm
Active area	152.4 x 91.44	mm
Pixel pitch	0.1905x 0.1905	mm
LCD type	TFT, Normally White, Transmissive	
View Direction	12 o'clock	
Gray Scale Inversion Direction	6 o'clock	
Aspect Ratio	16:9	
Backlight Type	LED, Normally White	
Controller IC	SSD1963	
Interface	Digital 8080 family MPU(8bit Parallel)	
Touch Panel	Without Touch Panel	
Surface	Anti-Glare	

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	°C
Storage Temperature	TST	-30	—	+80	°C

Electrical Characteristics

Operating conditions :

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For LCM	VDD	-	3.0	3.3	3.6	V
Supply Current For LCM	IDD	Black Pattern	—	160	240	mA

LED driving conditions :

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	-	-	160	200	mA
Power Consumption	VBL+=9.8V	-	1568	-	mW
LED voltage	VBL+	8.4	9.8	11	V
LED Life Time	-	-	50,000	-	Hr

Interface

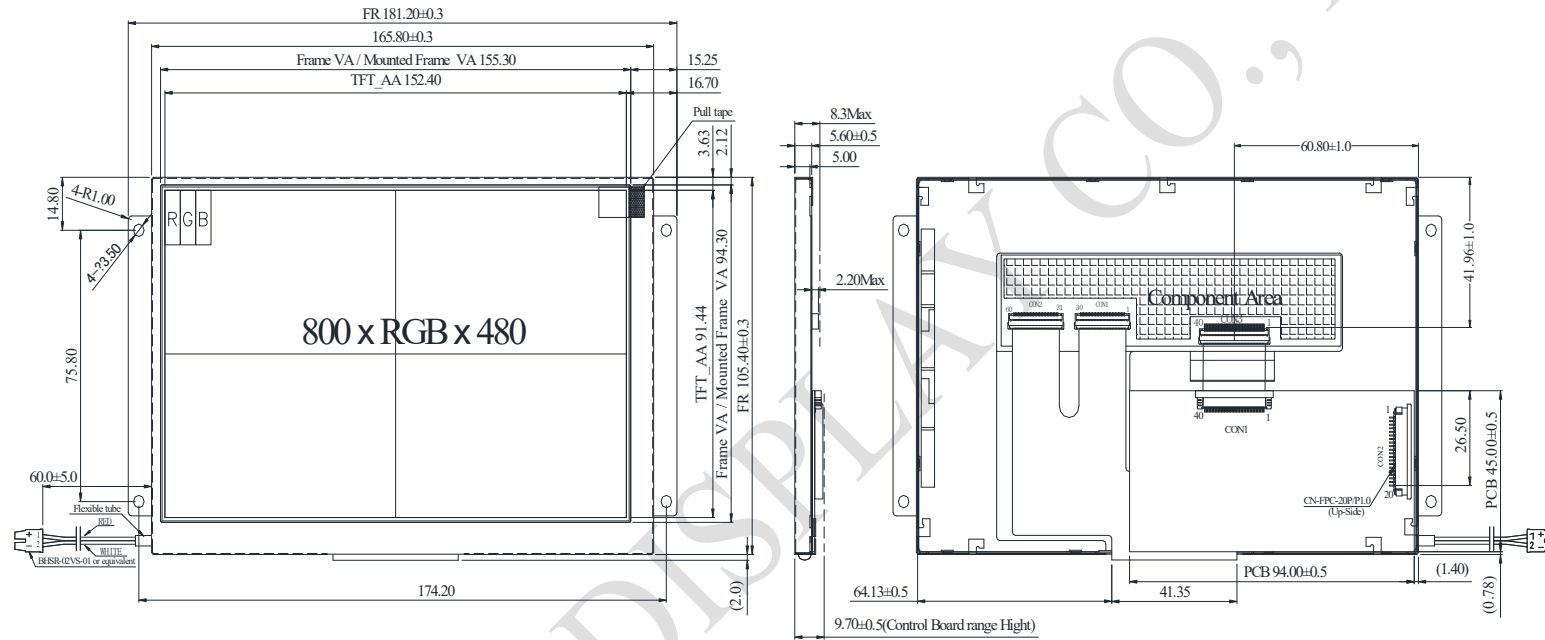
1. LCM PIN Definition

Pin	Symbol	Description
1	GND	Power Ground
2	VDD	Power Supply : +3.3V
3	NC	No connect
4	D/C	Data/Command select
5	WR	Write strobe signal
6	RD	Read strobe signal
7	DB0	Data bus
8	DB1	Data bus
9	DB2	Data bus
10	DB3	Data bus
11	DB4	Data bus
12	DB5	Data bus
13	DB6	Data bus
14	DB7	Data bus
15	CS	Chip select
16	NC	No connect
17	NC	No connect
18	RST	Hardware reset
19	NC	No connect
20	NC	No connect

2. Backlight Driving Part

Pin No.	Symbol	Description
1	VLED+	Red, LED_ Anode
2	VLED-	White, LED_ Cathode

Contour Drawing



Note:

Front view will see two layers of iron frame.

CON2

PIN NO.	SYMBOL	PIN NO.	SYMBOL
1	GND	11	DB4
2	VDD	12	DB5
3	NC	13	DB6
4	D/C	14	DB7
5	WR	15	CS
6	RD	16	NC
7	DB0	17	NC
8	DB1	18	RST
9	DB2	19	NC
10	DB3	20	NC

B/L

PIN NO.	SYMBOL
1	VLED+
2	VLED-

The non-specified tolerance of dimension is ±0.3 mm.