

TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



SPECIFICATION

MODULE NO.: WF70B8SWAGDNB0#

General Specifications

Item	Dimension	Unit
Size	7.0	inch
Dot Matrix	800 x RGB x 480(TFT)	dots
Module dimension	165.8 (W) x 106.61 (H) x 12.95(D)	mm
Active area	152.40 x 91.44	mm
Pixel pitch	0.1905 x 0.1905	mm
LCD type	TFT, Normally Black, Transmissive	
View Direction	80/80/80/80	
TFT Interface	18-bit RGB	
TFT Driver IC	HX8249-A + HX8678-C or Equivalent	
Aspect Ratio	15:9	
Backlight Type	LED, Normally White	
CTP IC	ILI2511 or equivalent	
CTP Interface	USB (I2C available)	
CTP FW Version:	6.0.0.0.0.0.1	
Touch Panel	Projected capacitive touch panel (PCAP)	
Surface	Glare	

*Color tone slight changed by temperature and driving voltage.

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-30	—	+80	°C
Storage Temperature	TST	-40	—	+85	°C

Electrical Characteristics

1. Operating conditions

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage	Vcc	2.7	3.3	3.6	V
Current of power supply	Icc	—	22	33	mA
Supply CTP	USB_VDD 5V	4.4	5.0	5.5	V
	I_VDD 5V	—	83.6	126	mA

2. LED driving conditions

Parameter	Symbol	Min	Typ	Max	Unit
LED current	—	—	450	—	mA
LED voltage	VLED+	8.1	9.3	10.2	V
LED Life Time	—	40000	—	—	Hr

Interface

LCM PIN Definition

Pin	Symbol	Function
1	GND	Power ground
2	GND	Power ground
3	NC	No connection
4	VCC	Power voltage
5	VCC	Power voltage
6	VCC	Power voltage
7	VCC	Power voltage
8	NC	No connection
9	DE	Data enable signal for TTL mode.
10	GND	Power ground
11	GND	Power ground
12	GND	Power ground
13	B5	Blue data
14	B4	Blue data
15	B3	Blue data
16	GND	Power ground
17	B2	Blue data
18	B1	Blue data
19	B0	Blue data(LSB)
20	GND	Power ground
21	G5	Green data
22	G4	Green data
23	G3	Green data
24	GND	Power ground
25	G2	Green data
26	G1	Green data
27	G0	Green data(LSB)
28	GND	Power ground
29	R5	Red data
30	R4	Red data
31	R3	Red data

32	GND	Power ground
33	R2	Red data
34	R1	Red data
35	R0	Red data (LSB)
36	GND	Power ground
37	GND	Power ground
38	DCLK	Sample clock
39	GND	Power ground
40	GND	Power ground

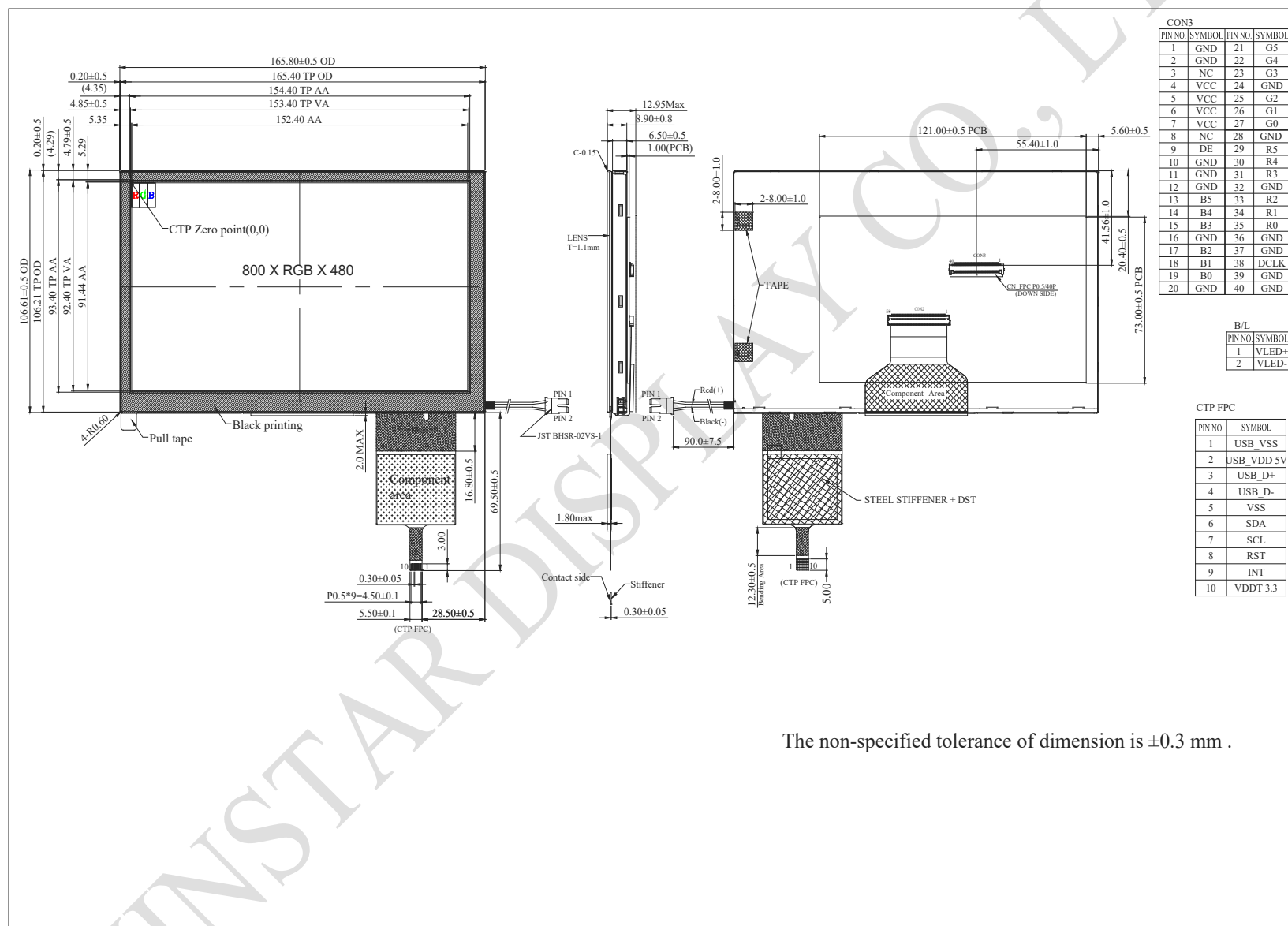
Backlight Driving Part

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

CTP PIN Definition

Pin	Symbol	Function
1	USB_VSS	System ground
2	USB_VDD 5V	Power supply
3	USB_D+	Data +
4	USB_D-	Data -
5	VSS	System ground
6	SDA	I2C data input and output
7	SCL	I2C clock input
8	RST	External Reset, Low is active
9	INT	External interrupt to the host
10	VDDT 3.3	Power supply

Contour Drawing



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