TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
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SPECIFICATION

MODULE NO.: WF101-1280800LPL#0SP3-FC

General Specifications

Item	Dimension	Unit
Screen Diagonal	10.1	inch
Number of Pixels	1280 x 3(RGB) x 800	dots
Module dimension	257.96 x 168.6 x 25.88	mm
Active area	216.96 (H) x 135.6(V)	mm
Pixel pitch	0.1695 × 0.1695	mm
Display Mode	Normally Black , Transmissive	
Viewing Angle	80/80/80/80	
Pixel Arrangement	R.G.B. Vertical Stripe	
TFT Drive IC	EK79202B1 or Equivalent	
Backlight Type	LED,Normally White	
Aspect Ratio	16:10	
Interface	LVDS	
PCAP FW Version	80	
PCAP IC	GT928 or Equivalent	
PCAP Interface	I2C	

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PCAP Resolution	1280*800
Touch Panel	Projected Capacitive Touch Panel (PCAP)
Surface	Glare

Absolute Maximum Ratings

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

Electrical Characteristics

Typical Operation Conditions：

Item	Symbol	Min	Typ	Max	Unit	Note
Supply Voltage For LCM +12V	DC12V	—	12.0	—	V	-
Supply Current For LCM +12V	IDC12V	—	620	950	mA	-
Supply Voltage For PCAP (I2C)	DC3V	3.15	3.3	3.45	V	I2C Type
Supply Current For PCAP (I2C)	I_{DC3V}	—	14	21	mA	

Backlight Characteristics：

Parameter	Symbol	Min.	Typ.	Max.	Unit
PWM Control Level (LED_PWM)	High Level	—	3.3	—	V
	Low Level	—	0	—	V
PWM Control Duty Ratio	-	1	—	100	%
PWM Control Frequency	-	—	10K	—	Hz
LED Life Time	-	50,000	—	—	Hr

Interface

LCM PIN Definition

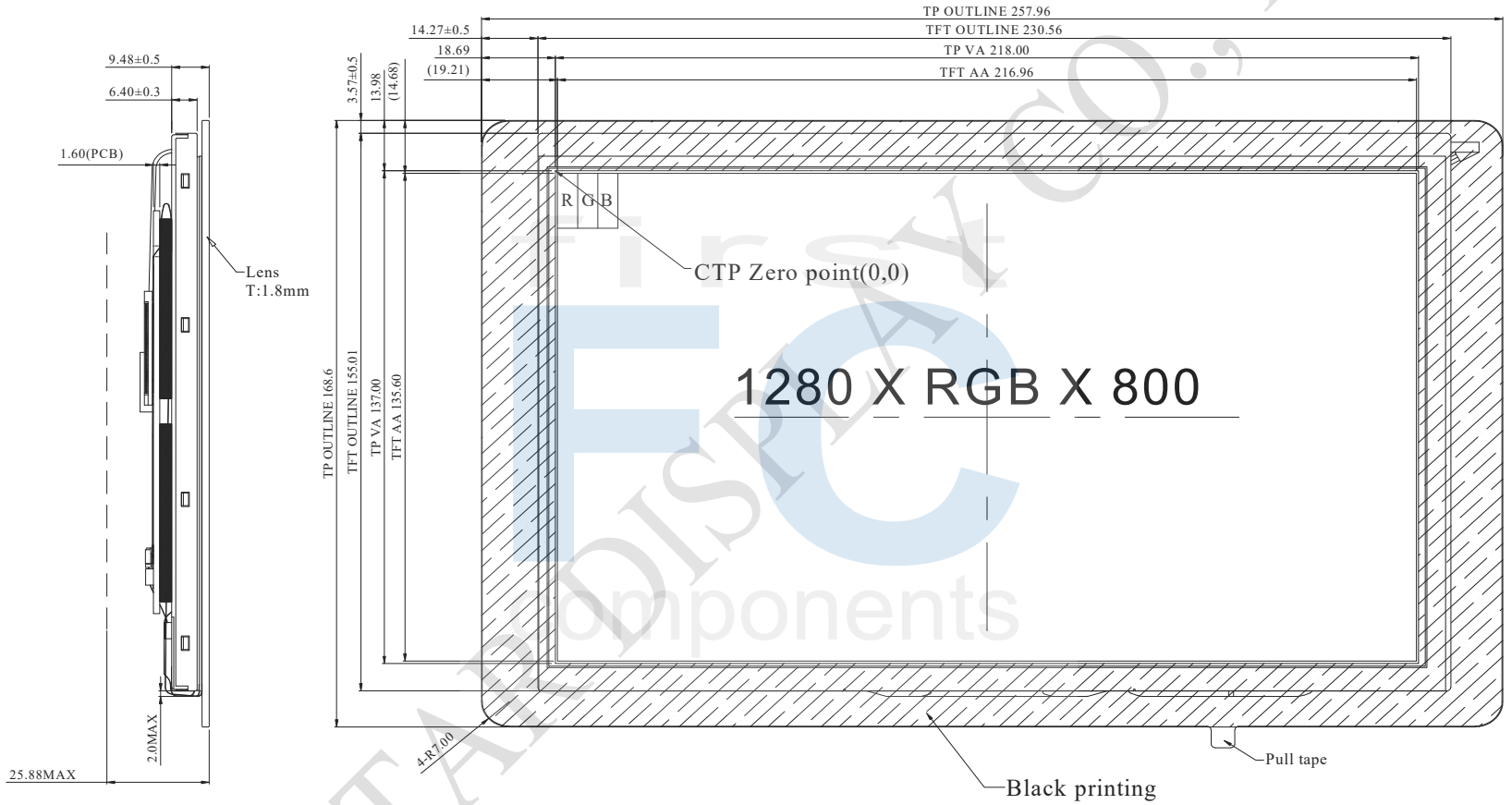
Pin No.	Symbol	I/O	Function
1	DC12V	P	Power Supply
2	DC12V	P	Power Supply
3	DC12V	P	Power Supply
4	NC	-	No connection
5	GND	P	Ground
6	GND	P	Ground
7	GND	P	Ground
8	Rxin0-	I	-LVDS Differential Data Input
9	Rxin0+	I	+LVDS Differential Data Input
10	GND	P	Ground
11	Rxin1-	I	-LVDS Differential Data Input
12	Rxin1+	I	+LVDS Differential Data Input
13	GND	P	Ground
14	Rxin2-	I	-LVDS Differential Data Input
15	Rxin2+	I	+LVDS Differential Data Input
16	GND	P	Ground
17	RxCLK-	I	-LVDS Differential Clock Input
18	RxCLK+	I	+LVDS Differential Clock Input
19	GND	P	Ground
20	Rxin3-	I	-LVDS Differential Data Input
21	Rxin3+	I	+LVDS Differential Data Input
22	GND	P	Ground
23	PWM		This pin is connected to the external LED driver. PWM type control signal for brightness of the LED backlight. If not used, please float this pin.
24	NC	-	No connection
25	DC3V	P	Power Supply
26	NC	-	No connection
27	GND	P	Ground

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28	SDA	I/O	Serial communication data input.
29	SCL	I	Serial communication clock input
30	INT	O	External interrupt to the host
31	RST	I	External Reset, Low is active
32	GND	P	Ground
33~43	NC	-	No connection
44	GND	P	Ground
45	GND	P	Ground
46	GND	P	Ground
47	NC	-	No connection
48	DC12V	P	Power Supply
49	DC12V	P	Power Supply
50	DC12V	P	Power Supply

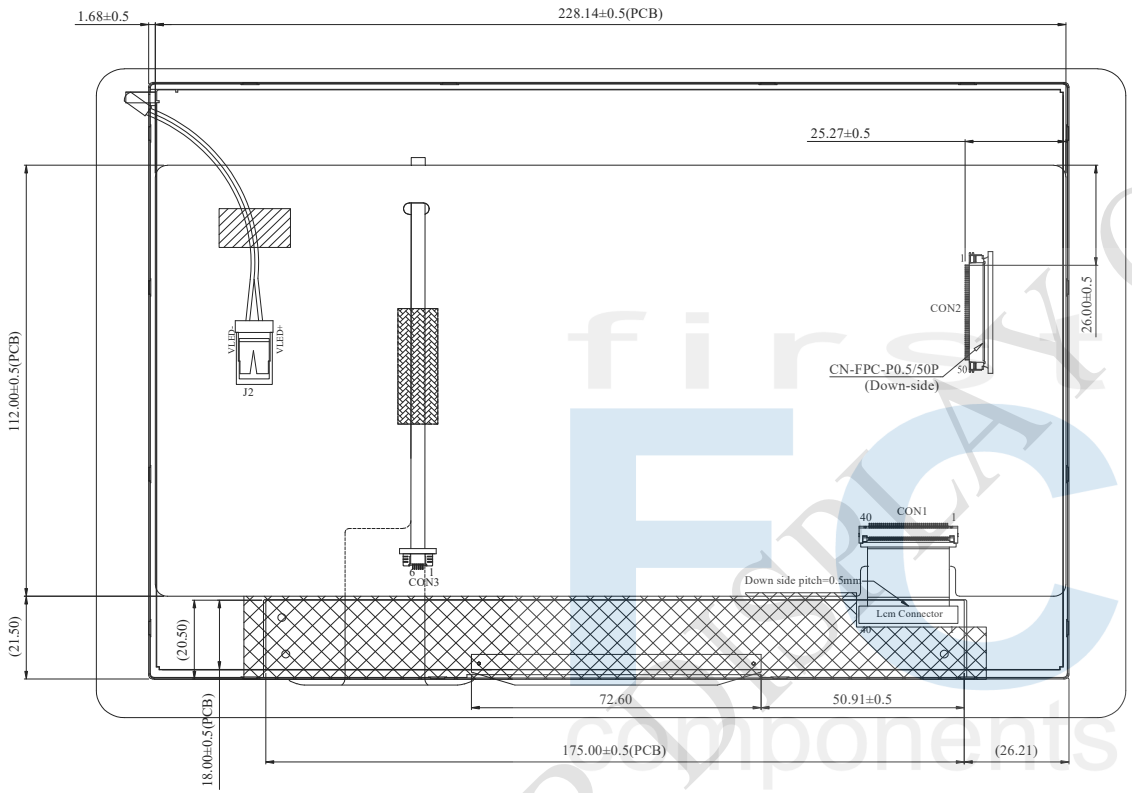
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Contour Drawing



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

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CON2

PIN NO.	SYMBOL	PIN NO.	SYMBOL
1	DC12V	26	NC
2	DC12V	27	GND
3	DC12V	28	SDA
4	NC	29	SCL
5	GND	30	INT
6	GND	31	RST
7	GND	32	GND
8	Rxin0-	33	NC
9	Rxin0+	34	NC
10	GND	35	NC
11	Rxin1-	36	NC
12	Rxin1+	37	NC
13	GND	38	NC
14	Rxin2-	39	NC
15	Rxin2+	40	NC
16	GND	41	NC
17	RxCLK-	42	NC
18	RxCLK+	43	NC
19	GND	44	GND
20	Rxin3-	45	GND
21	Rxin3+	46	GND
22	GND	47	NC
23	PWM	48	DC12V
24	NC	49	DC12V
25	DC3V	50	DC12V

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

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