

# TFT DISPLAY SPECIFICATION



**WINSTAR Display Co.,Ltd.**  
**華凌光電股份有限公司**



## SPECIFICATION

**MODULE NO.: WF121BTXAPLNN#**

### General Specifications

Item	Dimension	Unit
Dot Matrix	1280 x R.G.B. x 800	dots
Module dimension	278.0*184.0*10.0	mm
Active area	261.12*163.2	mm
Pixel pitch	0.204 x 0.204	mm
LCD type	TFT, Normally Black, Transmissive	
Surface Treatment	AG type, 3H hard coating	
Backlight Type	LED ,Normally White	
TFT Interface	LVDS	
Aspect Ratio	16 : 9	
Touch Panel	Without Touch Panel	

# Absolute Maximum Ratings

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

# Electrical Characteristics

## LCD ELETRONICS SPECIFICATION

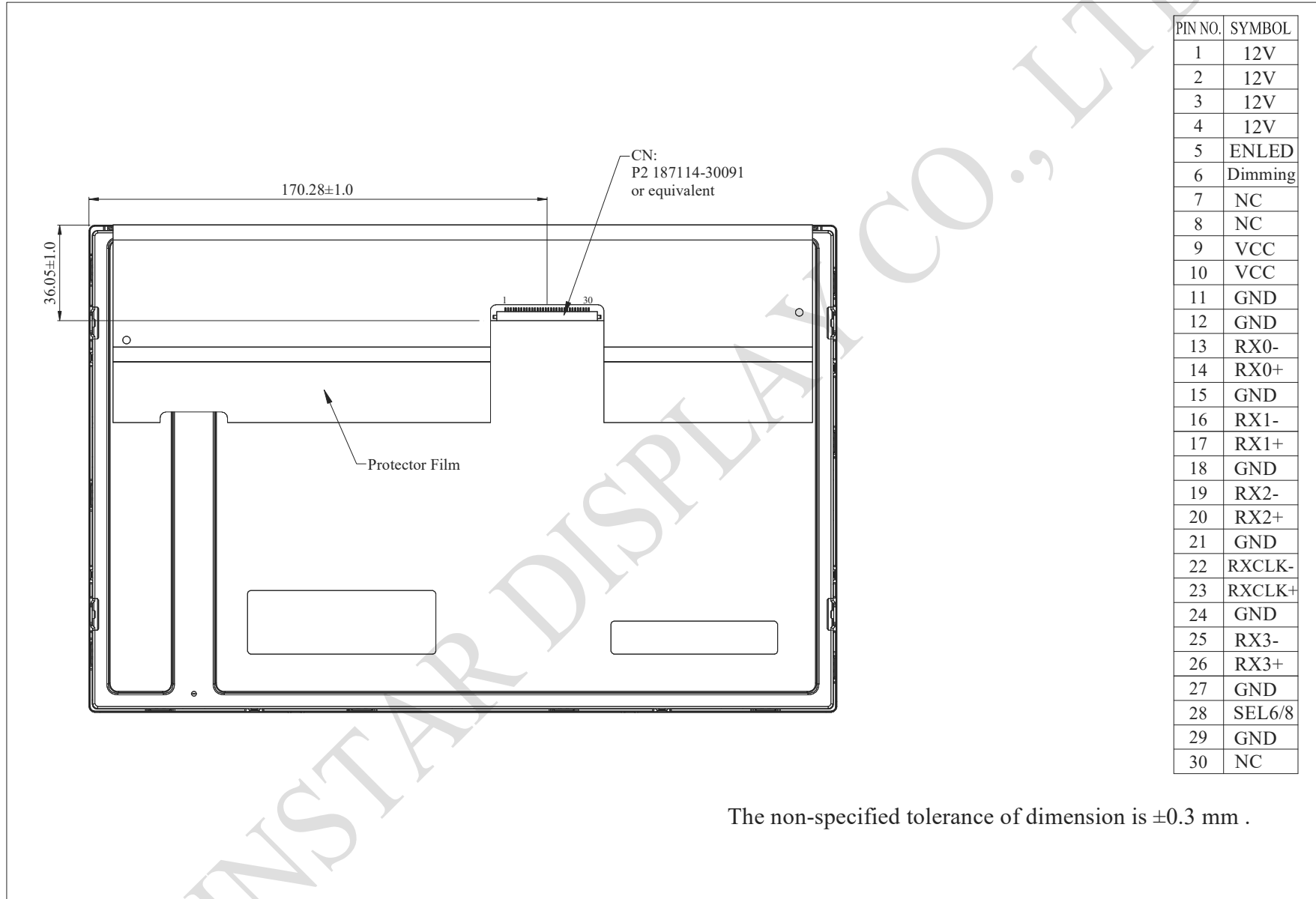
Parameter		Symbol	Value			Unit
			Min.	Typ.	Max.	
Power Supply Voltage		V <sub>CC</sub>	3.0	3.3	3.6	V
Permissive Ripple Voltage		V <sub>RP</sub>	-	50	-	mV
Rush Current		I <sub>RUSH</sub>	1.5			A
Initial Stage Current		I <sub>IS</sub>	-	-	1.0	A
Power Supply Current	White	-	-	530	630	mA
	Black	-	-	350	420	mA
LVDS Differential Input High Threshold		V <sub>TH(LVDS)</sub>	+100	-	-	mV
LVDS Differential Input Low Threshold		V <sub>T(LVDS)</sub>	-	-	-100	mV
LVDS Common Mode Voltage		V <sub>CM</sub>	1.125	-	1.375	V
LVDS Differential Input Voltage		V <sub>ID</sub>	100	-	600	mV
Terminating Resistor		R <sub>T</sub>	-	100	-	Ohm

# Interface

## LCM PIN Definition

Pin No.	Symbol	Description
1	12V	LED power
2	12V	LED power
3	12V	LED power
4	12V	LED power
5	ENLED	Enable pin
6	Dimming	Backlight Adjust
7	GND	Ground
8	GND	Ground
9	VCC	Power supply: +3.3V
10	VCC	Power supply: +3.3V
11	GND	Ground
12	GND	Ground
13	RX0-	Negative transmission data of pixel 0
14	RX0+	Positive transmission data of pixel 0
15	GND	Ground
16	RX1-	Negative transmission data of pixel 1
17	RX1+	Positive transmission data of pixel 1
18	GND	Ground
19	RX2-	Negative transmission data of pixel 2
20	RX2+	Positive transmission data of pixel 2
21	GND	Ground
22	RXCLK-	Negative of clock
23	RXCLK+	Positive of clock
24	GND	Ground
25	RX3-	Negative transmission data of pixel 3
26	RX3+	Positive transmission data of pixel 3
27	GND	Ground
28	SEL6/8	LVDS 6/8 bit select function control, Low or NC → 6 bit Input Mode High → 8bit Input Mode
29	GND	Ground
30	GND	Ground





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