

TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



SPECIFICATION

MODULE NO.: WF1560BTYAA5ENN0#

General Specifications

Item	Dimension	Unit
Size	15.6	inch
Dot Matrix	1920 x RGB x 1080	dots
Module dimension	360.0(W) x 212.3(H)x 9.0(D)	mm
Active area	344.16 x 193.59	mm
Pixel pitch	0.17925 (H) x 0.17925 (V)	mm
LCD type	TFT, Normally Black, Transmissive	
Viewing Angle	80/80/80/80	
Backlight Type	LED, Normally White	
TFT Driver IC	TC2055G or equivalent	
TFT Interface	eDP	
Touch Panel	Without Touch Panel	
Surface	Anti-Glare	

*Color tone slight changed by temperature and driving voltage.

Absolute Maximum Ratings

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

Electrical Characteristics

5.1. TFT LCD Module

Parameter	Symbol	Min.	Typ.	Max.	Units
Logic/LCD Drive Voltage	LCD_VDD	3.0	3.3	3.6	V
LCD_VDD Current	IDD	-	200	300	mA
LCD_VDD Current	IDDMAX	-	-	400	mA
LCD_VDD Power	PDD	-	0.66	1.32	W
Inrush Current	IRush	-	-	2	A
Allowable Logic/LCD Drive Ripple Voltage	LCD_VDDrp	-	-	100	mV

2. Backlight Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Units	Condition
LED input	VLED	29.7	33	37.4	V	Ta=25 °C
LED Forward Current	ILED	-	270	-	mA	
LED Life Time	-	-	30000	-	Hours	Ta=25 °C

Interface

1. LCM PIN Definition

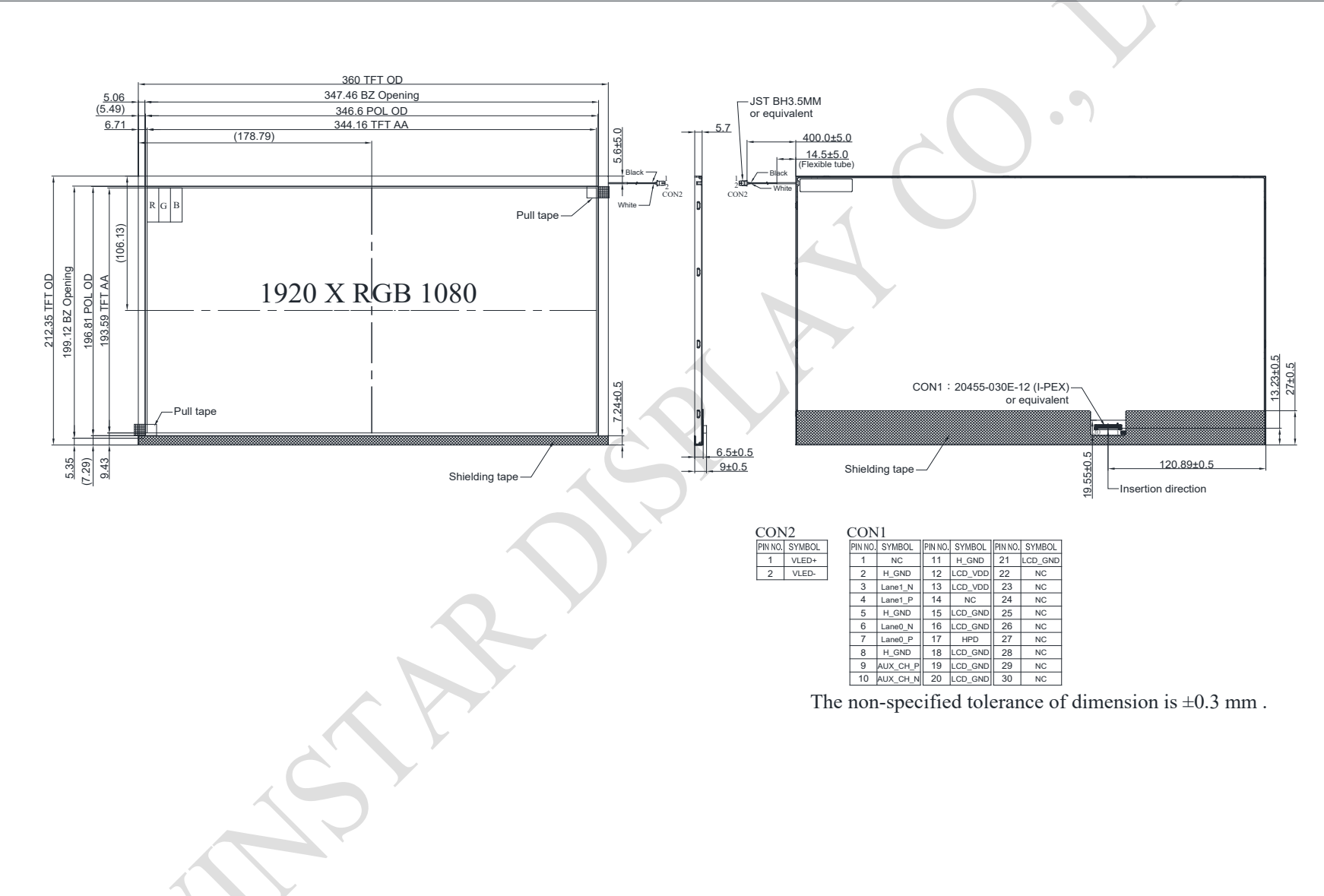
Pin No.	Signal Name	Description
1	NC	Not Connect
2	H_GND	Ground
3	Lane1_N	Complement Signal Link Lane 1
4	Lane1_P	True Signal Line 1
5	H_GND	Ground
6	Lane0_N	Complement Signal Link Lane 0
7	Lane0_P	True Signal Line 0
8	H_GND	Ground
9	AUX_CH_P	True Signal Auxiliary Ch.
10	AUX_CH_N	Complement Signal Auxiliary Ch.
11	H_GND	Ground
12-13	LCD_VDD	LCD Logic and Driver Power
14	NC	Not Connect
15-16	LCD_GND	Ground
17	HPD	HPD Signal Pin
18-21	LCD_GND	Ground
22-30	NC	Not Connect

Note: All input signals shall be low or Hi-Z state when LCD_VDD is off

2. Backlight PIN Definition

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

Contour Drawing



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