

TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



SPECIFICATION

MODULE NO.: WF46ATIATDNNA#

General Specification

Item	Dimension	Unit
Size	4.6	inch
Dot Matrix	800 x RGB x 320(TFT)	dots
Module dimension	120.7(W) x 56.16(H) x 3.1(D)	mm
Active area	108 x 43.2	mm
Pixel pitch	0.135 x 0.135	mm
LCD type	TFT, Normally White, Transmissive	
View Direction	12 o'clock	
Gray Scale Inversion Direction	6 o'clock	
Aspect Ratio	Bar Type	
TFT Driver IC	ILI6122+ILI5960 or Equivalent	
Backlight Type	LED, Normally White	
With /Without TP	Without TP	
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

1. Operating conditions

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For LCM	VCC	—	3.0	3.3	3.6	V
Supply Current For LCM	ICC	VCC=3.3V	—	50	70	mA

Note 1 : This value is test for VCC =3.3V , Ta=25 °C only

2. LED driving conditions

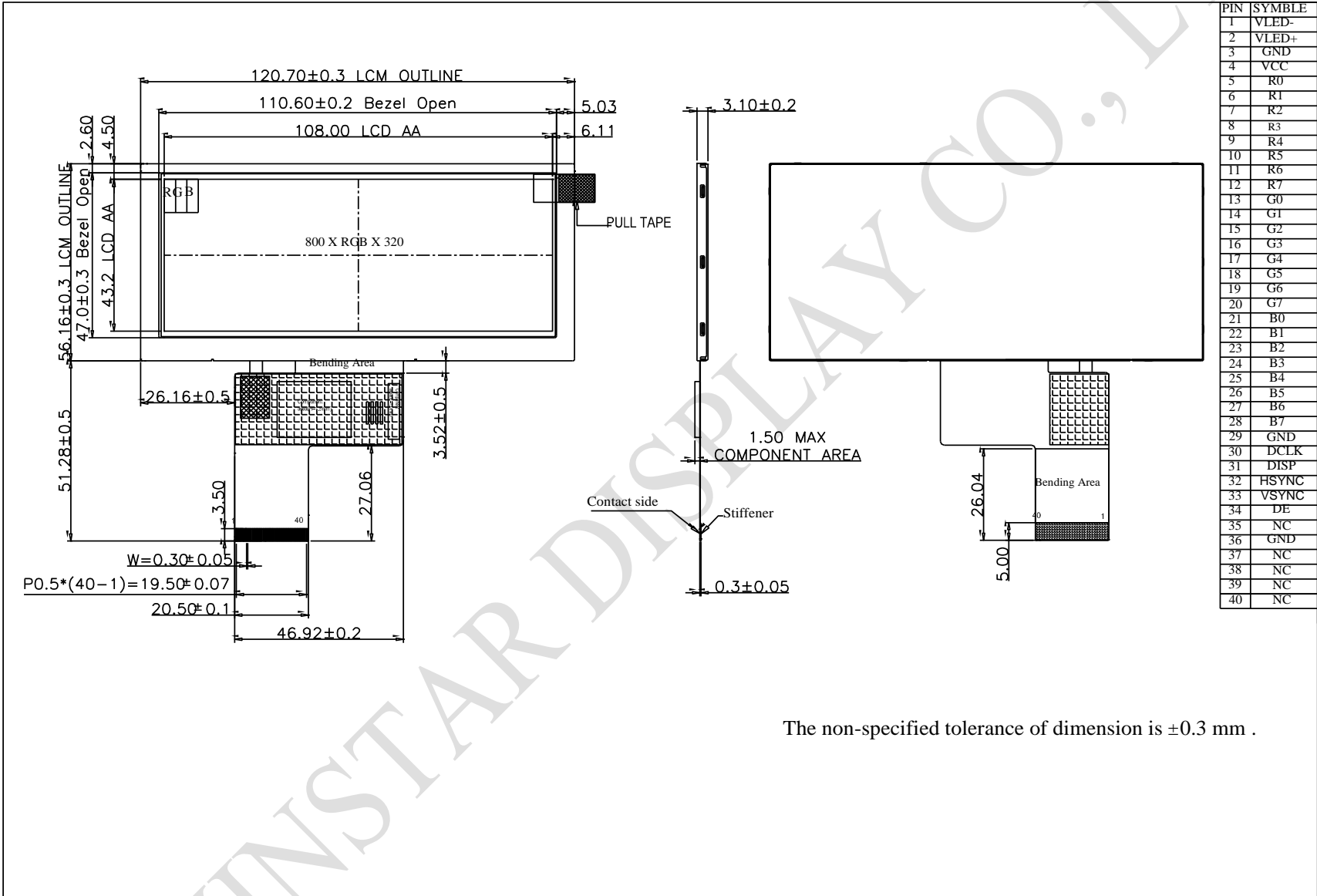
Item	Symbol	MIN	TYP	MAX	Unit
Forward Current	I _{LED}	—	40	—	mA
Forward Voltage	V _{LED+}	18	19.2	20.4	V
Backlight life time		—	30000	—	hr

Interface

LCM PIN Definition

No.	Symbol	Description
1	VLED-	Backlight LED Cathode
2	VLED+	Backlight LED Anode.
3	GND	System Ground
4	VCC	Power supply for logic operation (VDD)
5~12	R0~R7	Data bus
13~20	G0~G7	Data bus
21~28	B0~B7	Data bus
29	GND	System Ground
30	DCLK	Pixel clock signal(CLKIN)
31	DISP	Display on/off control
32	HSYNC	Horizontal Sync signal (HS)
33	VSYNC	Vertical Sync signal (VS)
34	DE	Data Enable
35	NC	No connect
36	GND	System Ground
37	NC	No connect
38	NC	No connect
39	NC	No connect
40	NC	No connect

Contour Drawing



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