

TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



Winstar Display Co., LTD

華凌光電股份有限公司

WEB: <https://www.winstar.com.tw> E-mail: sales@winstar.com.tw



SPECIFICATION

MODULE NO.: WF57A3TIGCDNN0#

General Specifications

Item	Dimension	Unit
Size	5.7	inch
Dot Matrix	320 x RGB x 240(TFT)	dots
Module dimension	141.12(W) x 101.55(H) x 6.05(D)	mm
Active area	115.2 x 86.40	mm
Dot pitch	0.12 x 0.36	mm
LCD type	TFT, Normally White, Transmissive	
TFT Driver IC	HX8218 + HX8615 or Equivalent	
TFT Interface	24-bit RGB	
View Direction	12 o'clock	
Gray Scale Inversion Direction	6 o'clock	
Aspect Ratio	4:3	
Backlight Type	LED, Normally White	
Touch Panel	Without Touch Panel	
Surface	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 Logic	VCC	—	3.0	3.3	3.6	V
Supply Current	ICC	VCC=3.3V	—	230	345	mA

2. LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	—	—	140	—	mA
Power Consumption	—	1204	—	1470	mW
LED voltage	VBL+	8.6	—	10.5	V
LED Life Time	—	50,000	—	—	Hr

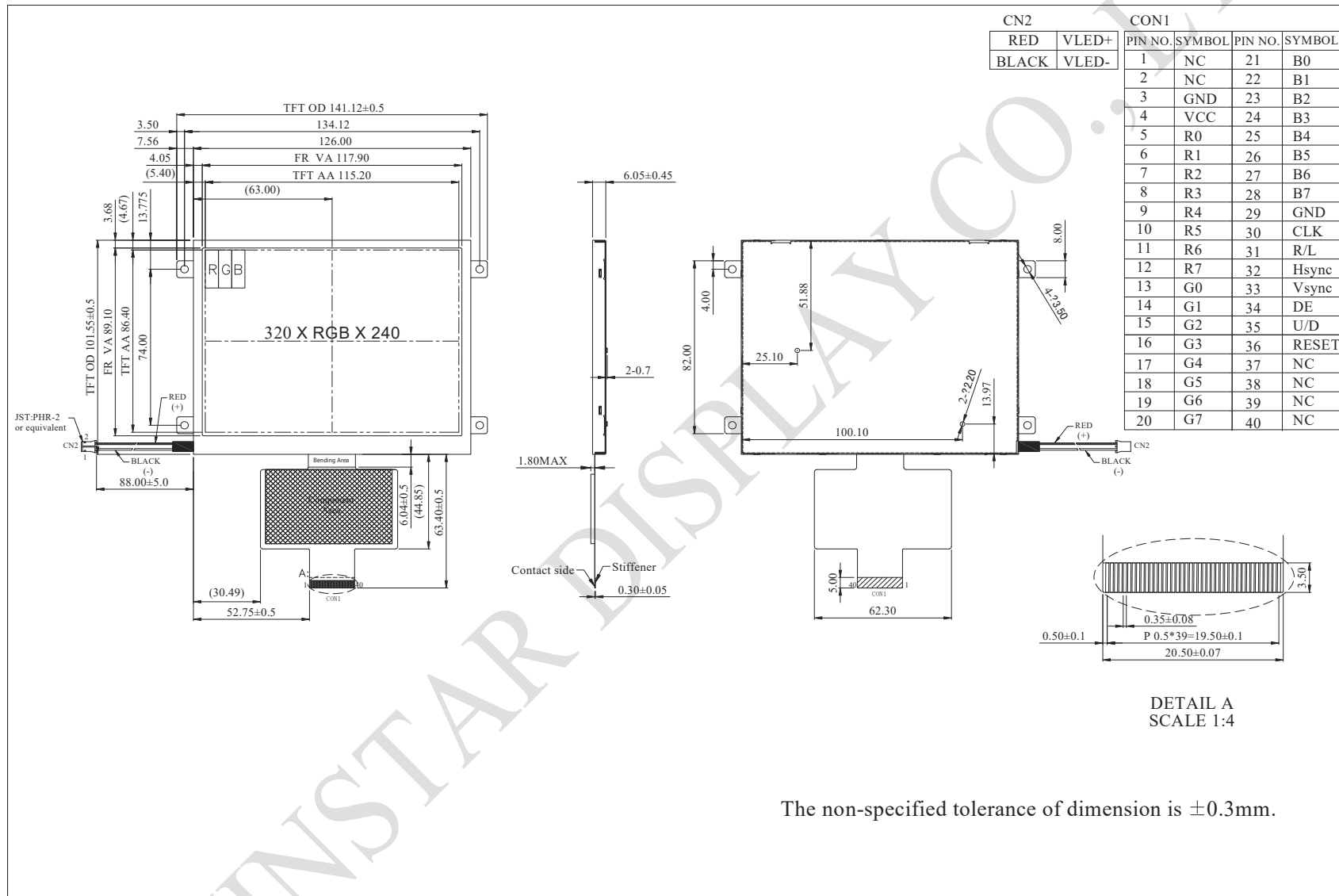
Interface

1. LCM PIN Definition

Pin	Symbol	Function
1	NC	No connection
2	NC	No connection
3	GND	System ground pin of the IC. Connect to system ground.
4	VCC	Power Supply
5	R0	Red Data bit(LSB)
6	R1	Red Data bit
7	R2	Red Data bit
8	R3	Red Data bit
9	R4	Red Data bit
10	R5	Red Data bit
11	R6	Red Data bit
12	R7	Red Data bit (MSB)
13	G0	Green Data bit(LSB)
14	G1	Green Data bit
15	G2	Green Data bit
16	G3	Green Data bit
17	G4	Green Data bit
18	G5	Green Data bit
19	G6	Green Data bit
20	G7	Green Data bit (MSB)
21	B0	Blue Data bit(LSB)
22	B1	Blue Data bit
23	B2	Blue Data bit
24	B3	Blue Data bit
25	B4	Blue Data bit
26	B5	Blue Data bit
27	B6	Blue Data bit
28	B7	Blue Data bit (MSB)
29	GND	System ground pin of the IC. Connect to system ground.
30	CLK	Dot data clock

31	R/L	Shift direction of device internal shift register control.
32	Hsync	Horizontal sync signal
33	Vsync	Vertical sync signal
34	DE	Data Enable signal
35	U/D	Up/down selection
36	RESET	Hardware reset
37-40	NC	No connection

Contour Drawing



The non-specified tolerance of dimension is $\pm 0.3\text{mm}$.