

TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
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SPECIFICATION

MODULE NO.: WF57A5SYAFDNN0#

General Specifications

Item	Dimension	Unit
Size	5.7	inch
Dot Matrix	640 x RGB x 480(TFT)	dots
Module dimension	124.7 x 100.0 x 5.91	mm
Active area	115.2 x 86.4	mm
Pixel pitch	0.18 x 0.18	mm
LCD type	TFT, Normally black, Transmissive	
View Angle	80/80/80/80	
TFT Driver IC	JD9168S or Equivalent	
TFT interface	RGB18bits SYNC+DE mode	
Aspect Ratio	4:3	
Backlight Type	LED, Normally White	
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

1. Operating conditions:

Parameter		Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage		VCC	Ta=25°C	3.0	3.3	3.6	V
Input voltage	H	VIH	VCC=3.0V	0.7VCC	-	VCC	
	L	VIL	VCC=3.0V	0	-	0.3VCC	mW
Power supply Current (Operating)		ICC	VCC=3.0V	—	50	75	mA

2. LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	-	-	160	-	mA
Power Consumption	-	2688	2880	3072	mW
LED voltage	VLED+	16.8	18.0	19.2	V
LED Life Time	-	50,000	-	-	Hr

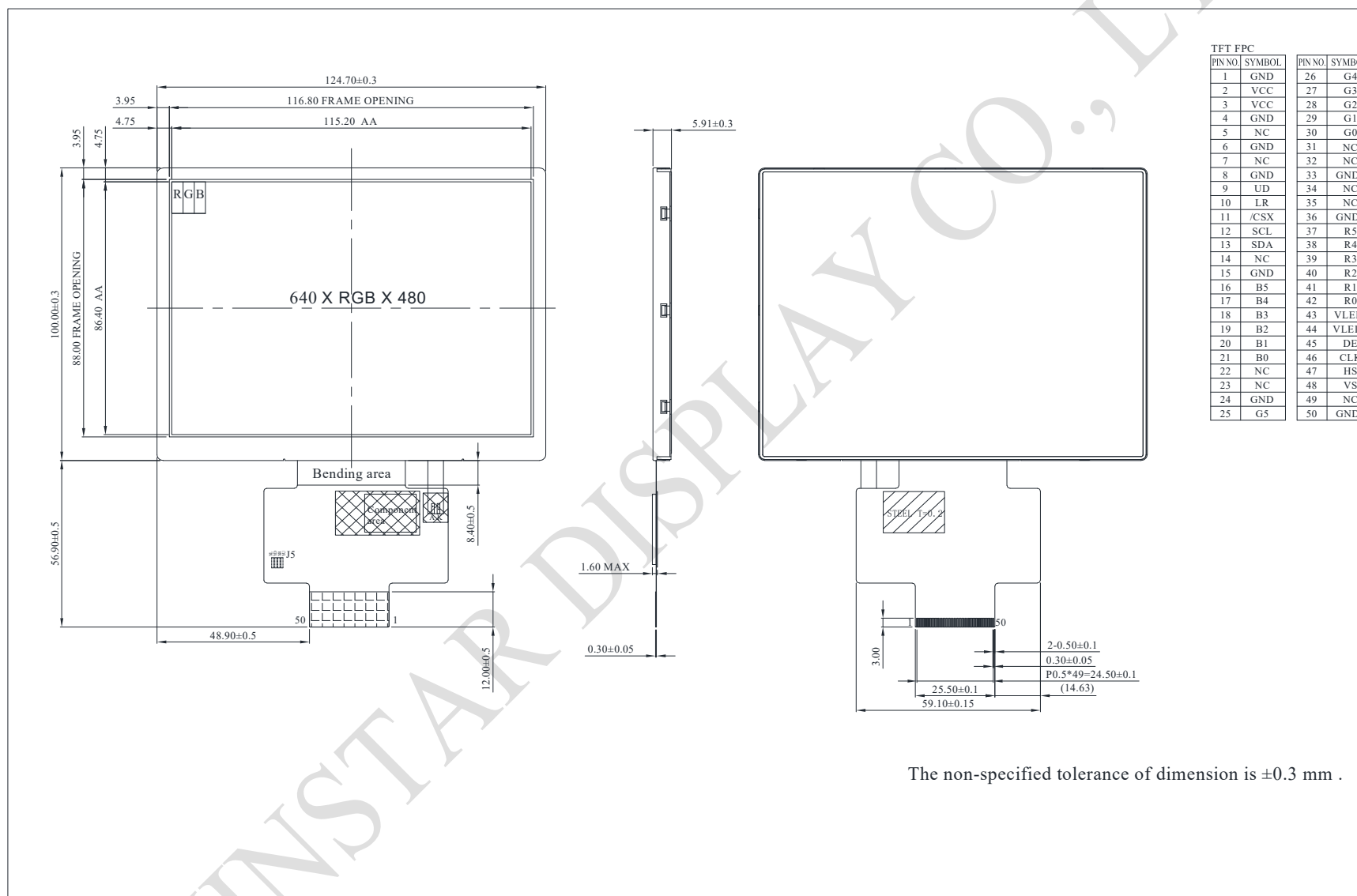
Interface

1. LCM PIN Definition

Pin	Symbol	I/O	Function
1	GND	P	Ground.
2	VCC	P	Power supply for TFT
3	VCC	P	Power supply for TFT
4	GND	P	Ground.
5	NC	-	No connection
6	GND	P	Ground.
7	NC	-	No connection
8	GND	P	Ground.
9	UD	I	Up/down selection
10	LR	I	Left /right selection
11	/CSX	I	Chip select pin. 0: Chip can be accessed; 1: Chip cannot be accessed. If this pin is not used, please connect it to VCC.
12	SCL	I	Serial clock input in SPI interface .If not use, let it open or VCC or GND.
13	SDA	I	Serial data input / output pin in SPI interface operation. If not use, let it open.
14	NC	-	No connection
15	GND	P	Ground.
16	B5	I	Blue Data bus
17	B4	I	Blue Data bus
18	B3	I	Blue Data bus
19	B2	I	Blue Data bus
20	B1	I	Blue Data bus
21	B0	I	Blue Data bus
22	NC	-	No connection
23	NC	-	No connection
24	GND	P	Ground.
25	G5	I	Green Data bit
26	G4	I	Green Data bit
27	G3	I	Green Data bit
28	G2	I	Green Data bit

29	G1	I	Green Data bit
30	G0	I	Green Data bit
31	NC	-	No connection
32	NC	-	No connection
33	GND	P	Ground.
34	NC	-	No connection
35	NC	-	No connection
36	GND	P	Ground.
37	R5	I	Red Data bit
38	R4	I	Red Data bit
39	R3	I	Red Data bit
40	R2	I	Red Data bit
41	R1	I	Red Data bit
42	R0	I	Red Data bit
43	VLED-	P	Power supply for LED cathode
44	VLED+	P	Power supply for LED anode
45	DE	I	Data enable input in RGB interface.
46	CLK	I	Pixel clock input in RGB interface.
47	HS	I	Horizontal sync input in RGB interface.
48	VS	I	Vertical sync input in RGB interface
49	NC	-	No connection
50	GND	P	Ground.

Contour Drawing



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