

# TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.  
華凌光電股份有限公司



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### SPECIFICATION

**MODULE NO.: WF57A5TYAFDNT0**

### General Specifications

Item	Dimension	Unit
Size	5.7	inch
Dot Matrix	640 x RGB x480(TFT)	dots
Module dimension	124.7 x 100 x 7.41	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	
With /Without TP	With RTP	
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

## 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	VCC=3.0V	0.7VCC	-	VCC	
	L	VCC=3.0V	0	-	0.3VCC	mW
Power supply Current (Operating)	ICC	VCC=3.0V	—	50	75	mA

## LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	-	-	80	-	mA
Power Consumption	-	1344	1440	1536	mW
LED voltage	VLED+	16.8	18.0	19.2	V
LED Life Time	-	-	50,000	-	Hr

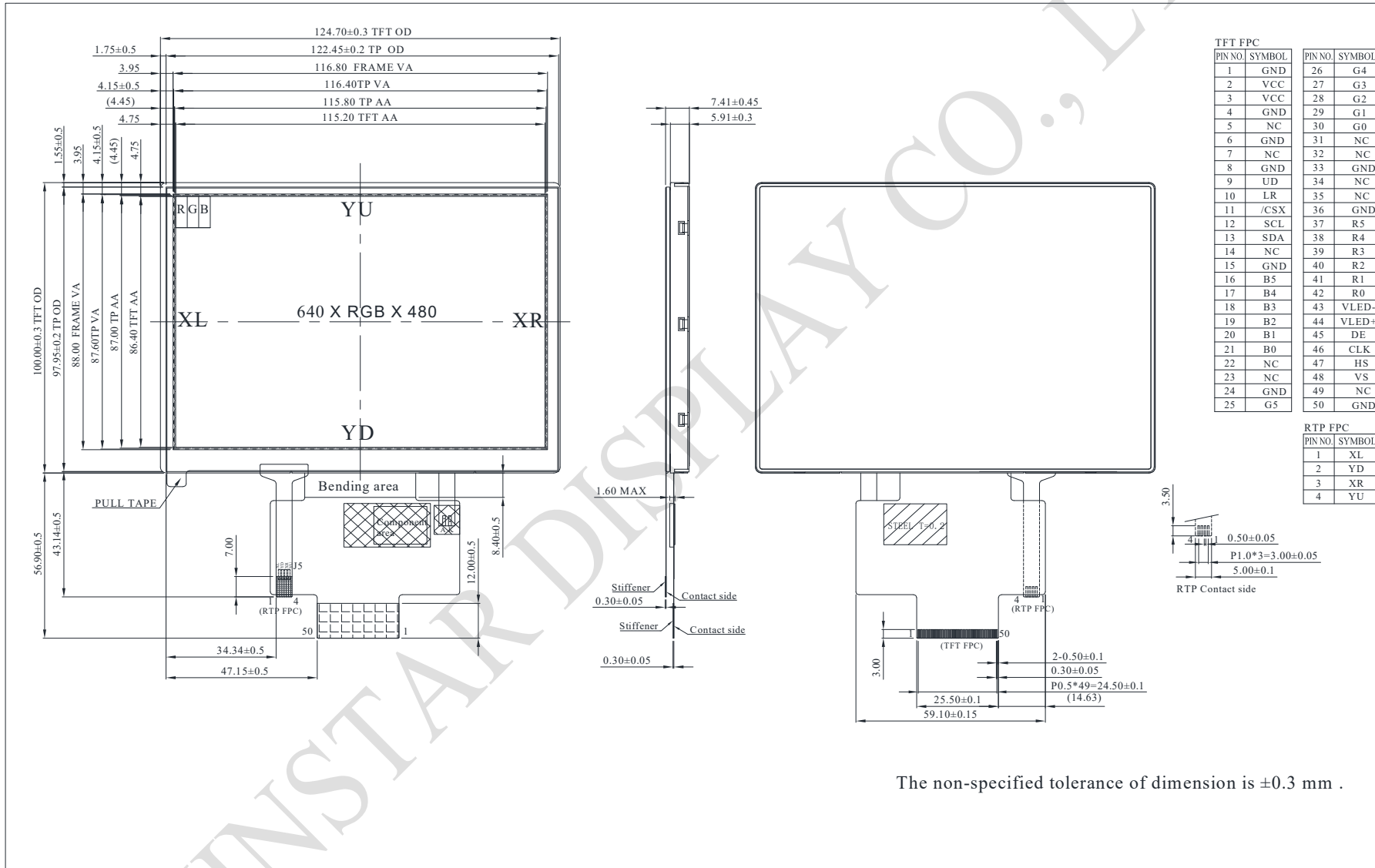
# Interface

## LCM PIN Definition

Pin	Symbol	I/O	Function	Remark
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 .