TFT DISPLAY SPECIFICATION



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SPECIFICATION

MODULE NO.: WF57-640480A5D#0P1-FC

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 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	
Touch Panel	Resistive Touch Panel	
Surface	Anti-Glare	

*Color tone slight changed by temperature and driving voltage.

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Absolute Maximum Ratings

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

Electrical Characteristics

1. Operating conditions:

Parameter		Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage		VCC	Ta=25ºC	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

Note1 ALL White Display pattern

2. 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

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Interface

1. LCM PIN Definition

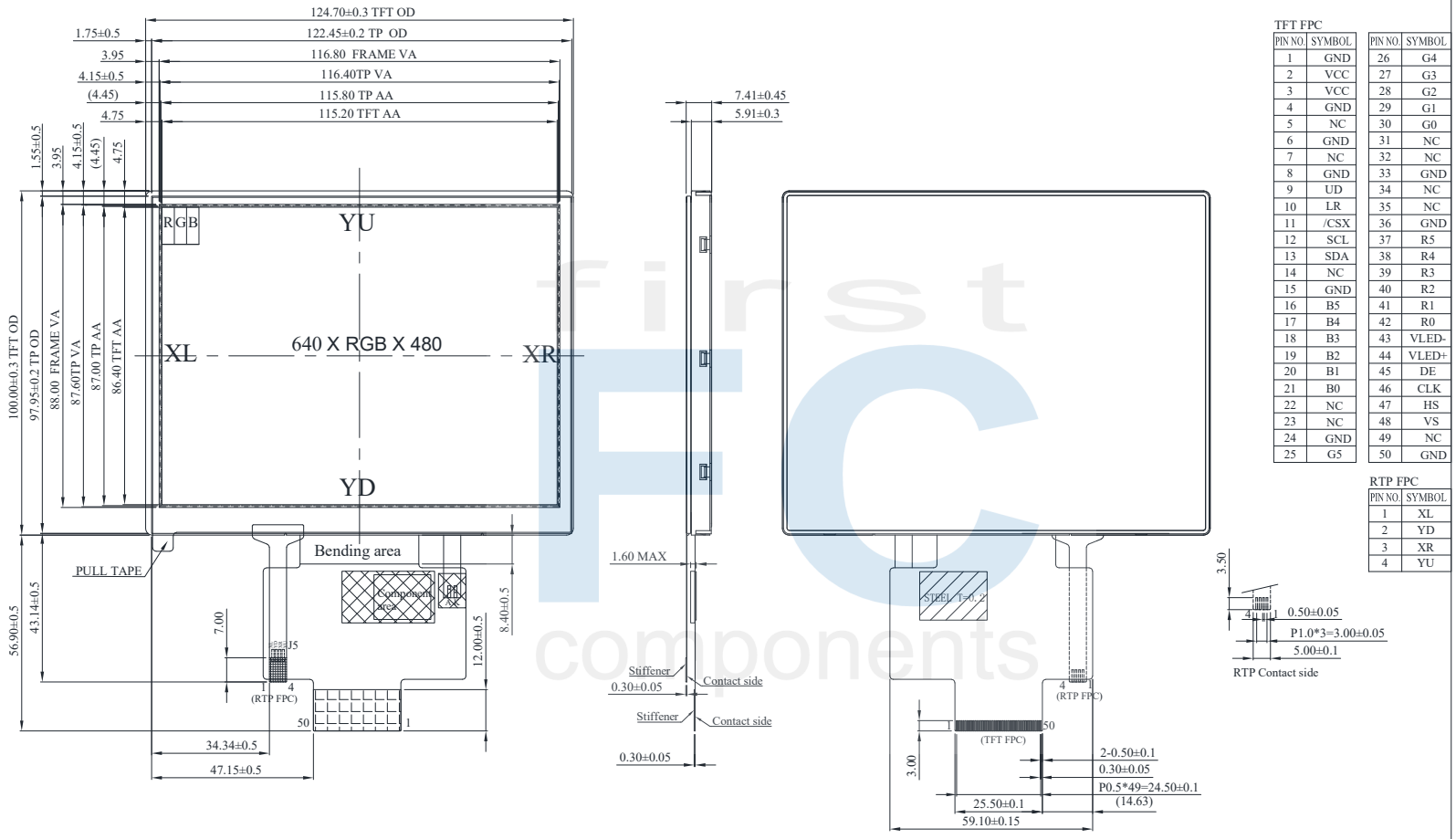
Pin	Symbol	I/O	Function
1	GND	P	Ground.
2	VCC	P	Power supply for TFT
3	VCC	P	Power supply for TFT
4	GND	P	Ground.
5	NC	-	No connection
6	GND	P	Ground.
7	NC	-	No connection
8	GND	P	Ground.
9	UD	I	Up/down selection
10	LR	I	Left /right selection
11	/CSX	I	Chip select pin. 0: Chip can be accessed; 1: Chip 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

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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.

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Contour Drawing



TFT FPC

PIN NO.	SYMBOL
1	GND
2	VCC
3	VCC
4	GND
5	NC
6	GND
7	NC
8	GND
9	UD
10	LR
11	/CSX
12	SCL
13	SDA
14	NC
15	GND
16	B5
17	B4
18	B3
19	B2
20	B1
21	B0
22	NC
23	NC
24	GND
25	G5

PIN NO.	SYMBOL
26	G4
27	G3
28	G2
29	G1
30	G0
31	NC
32	NC
33	GND
34	NC
35	NC
36	GND
37	R5
38	R4
39	R3
40	R2
41	R1
42	R0
43	VLED-
44	VLED+
45	DE
46	CLK
47	HS
48	VS
49	NC
50	GND

RTP FPC

PIN NO.	SYMBOL
1	XL
2	YD
3	XR
4	YU

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

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