TFT DISPLAY SPECIFICATION



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SPECIFICATION

MODULE NO.: WF70D5TWAHLNN0#

General Specifications

Item	Dimension	Unit
Size	7.0	inch
Dot Matrix	1024 x RGB x 600(TFT)	dots
Module dimension	169.9(W) x 103.4(H) x5.6 (D)	mm
Active area	154.2144 x 85.92	mm
Pixel pitch	0.1506 x 0.1432	mm
LCD type	TFT, Normally Black, Transmissive	
View Angle	80/80/80/80	
TFT Driver IC	JD9165BA or Equivalent	
Backlight Type	LED, Normally White	
TFT Interface	LVDS	
Touch Panel	Without 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	-30	—	+85	℃
Storage Temperature	TST	-40	—	+90	℃

Electrical Characteristics

1. Operating conditions:

Item	Symbol	Values			Unit
		Min.	Typ.	Max.	
Power voltage	VDD	3.0	3.3	3.6	V
Analog Power	AVDD	-	11	-	V
TFT Gate ON Voltage	VGH	19.5	20	20	V
TFT Gate OFF Voltage	VGL	-8.5	-8	-7.5	V
TFT Common Voltage	Vcom	-	4.9	-	V
Power Current	IDD	-	18	27	mA
Analog Power Current	IAVDD	-	20.94	-	mA
TFT Gate ON Current	IVGH	-	1.5	-	mA
TFT Gate OFF Current	IVGL	-	1.5	-	mA
TFT Common Current	IVCOM	-	1	-	uA

2. LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	—	—	200	—	mA
LED voltage	VLED+	16.2	19.2	21.0	V
LED Life Time	—	50,000	—	—	Hr

Interface

1. LCM PIN Definition

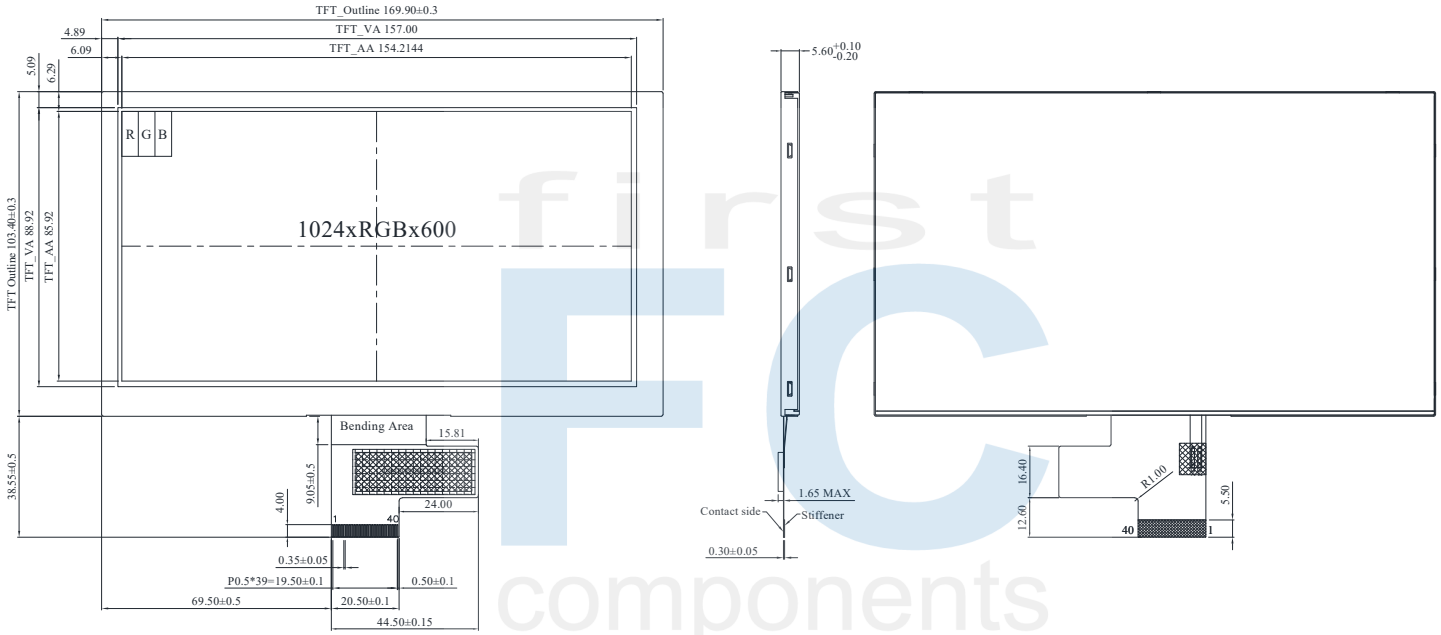
Pin No.	Symbol	Function
1	VCOM	Common Voltage
2	VDD	Digital circuit
3	VDD	Digital circuit
4	NC	No connection
5	RESET	Global reset pin
6	STBYB	Standby mode, Normally pulled high STBYB = “1”, normal operation STBYB = “0”, timing controller, source driver will turn off, all output are High-Z
7	GND	Ground
8	RXIN0-	Negative LVDS differential data input
9	RXIN0+	Positive LVDS differential data input
10	GND	Ground
11	RXIN1-	Negative LVDS differential data input
12	RXIN1+	Positive LVDS differential data input
13	GND	Ground
14	RXIN2-	Negative LVDS differential data input
15	RXIN2+	Positive LVDS differential data input
16	GND	Ground
17	RXCLKIN-	Negative LVDS differential clock input
18	RXCLKIN+	Positive LVDS differential clock input
19	GND	Ground
20	RXIN3-	Negative LVDS differential data input
21	RXIN3+	Positive LVDS differential data input
22	GND	Ground
23	NC	No connection
24	NC	No connection
25	GND	Ground
26	NC	No connection
27	NC	No connection
28	SELB	6bit/8bit mode select H:6bit / L:8bit

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29	AVDD	Power for Analog Circuit
30	GND	Ground
31	VLED-	LED_ Cathode
32	VLED-	LED_ Cathode
33	L/R	Horizontal inversion
34	U/D	Vertical inversion
35	VGL	Negative power for TFT
36	NC	No connection
37	NC	No connection
38	VGH	Positive power for TFT
39	VLED+	LED_ Anode
40	VLED+	LED_ Anode

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Contour Drawing



PIN NO	SYMBOL
1	VCOM
2	VDD
3	VDD
4	NC
5	RESET
6	STBYB
7	GND
8	RXIN0-
9	RXIN0+
10	GND
11	RXIN1-
12	RXIN1+
13	GND
14	RXIN2-
15	RXIN2+
16	GND
17	RXCLKIN-
18	RXCLKIN+
19	GND
20	RXIN3-
21	RXIN3+
22	GND
23	NC
24	NC
25	GND
26	NC
27	NC
28	SELB
29	AVDD
30	GND
31	VLED-
32	VLED-
33	L/R
34	U/D
35	VGL
36	NC
37	NC
38	VGH
39	VLED+
40	VLED+

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

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