TFT DISPLAY SPECIFICATION



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SPECIFICATION

MODULE NO.: WFN0500DA2#000-FC

General Specifications

Item	Dimension	Unit
Size	5.0	inch
Dot Matrix	800 x RGB x 480 (TFT)	dots
Module dimension	120.8 x 75.9 x 2.73	mm
Active area	108.0 x 64.8	mm
Pixel pitch	0.135 x 0.135	mm
LCD type	TFT, Normally Black, Transflective	
Viewing Angle range: U/D/L/R	Trans：Typ. 60/60/60/50 Ref：Typ. 70/60/70/60	
Driver IC	JD9165	
TFT Interface	RGB 24bits	
Backlight Type	LED ,Normally White	
Touch Panel	Without Touch Panel	
Surface	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	-30	—	+85	℃

Electrical Characteristics

1. Operating conditions

Item	Symbol	Min.	Typ.	Max.	Unit
Power Supply Voltage	VDD	3.0	3.3	3.6	V
Power Supply Current	IDD	-	30	-	mA
Logic Input High Voltage	V_{IH}	0.7VDD	-	VDD	V
Logic Input Low Voltage	V_{IL}	0	-	0.3VDD	V
Panel Power Consumption	PVDD	-	0.099	-	W
Module Power Consumption	PLCM	-	1.719	-	W

2.LED driving conditions

Item	Symbol	Min.	Typ.	Max.	Unit
LED current	-	-	90	-	mA
LED voltage	VLED+	16.8	18	19.2	V
Backlight Power consumption	PLED	-	1.62	-	W
LED Life Time	-	25,000	-	-	Hr

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Interface

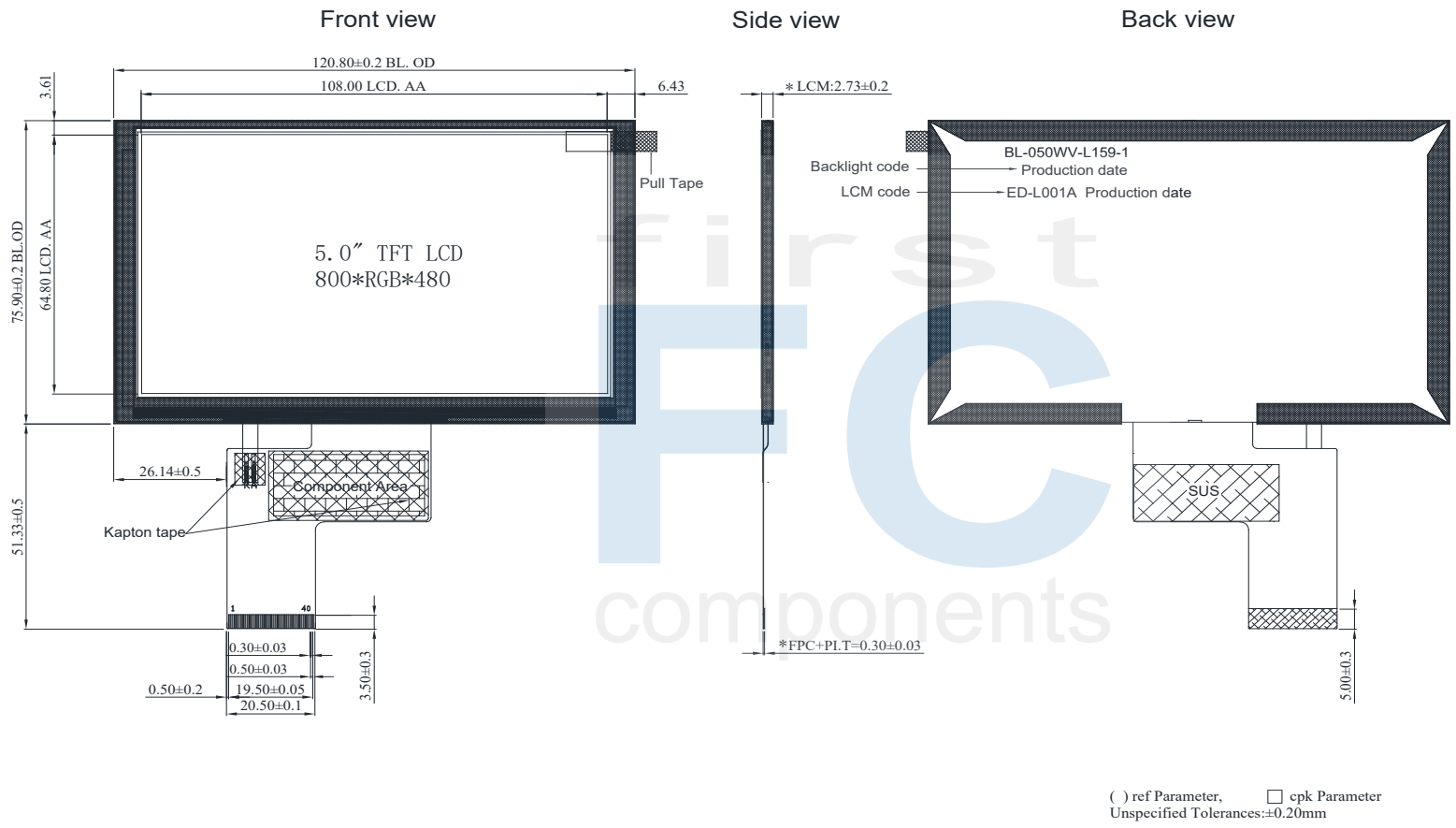
1. LCM PIN Definition

Pin No.	Symbo l	I/O	Description
1	VLED-	P	Power supply for backlight cathode
2	VLED+	P	Power supply for backlight anode
3	GND	P	Power Ground
4	VDD	P	Power supply to the internal logic power regulator(3.3V)
5-12	R0-R7	I	Red data input.
13-20	G0-G7	I	Green data input.
21-28	B0-B7	I	Blue data input.
29	GND	P	Power Ground
30	PCLK	I	Pixel clock input pin, Negative polarity
31	DISP	I	Standby mode. Normally pulled high.
32	HSYNC	I	Horizontal sync signal, Negative polarity
33	VSYNC	I	Vertical sync signal, Negative polarity
34	DE	I	Data input enable. Display access is enabled when DE is “H”
35	NC	-	Dummy
36	GND	P	Power Ground
37	NC	-	Dummy
38	NC	-	Dummy
39	NC	-	Dummy
40	NC	-	Dummy

I：Input；O：Output；P：Power

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Contour Drawing



1	VLED−
2	VLED+
3	GND
4	VCC
5	R0
6	R1
7	R2
8	R3
9	R4
10	R5
11	R6
12	R7
13	G0
14	G1
15	G2
16	G3
17	G4
18	G5
19	G6
20	G7
21	B0
22	B1
23	B2
24	B3
25	B4
26	B5
27	B6
28	B7
29	GND
30	PCLK
31	DISP
32	HSYNC
33	VSYNC
34	DEN
35	NC
36	GND
37	NC
38	NC
39	NC
40	NC

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