

5.0 inch TFT LCD



PROFILE

- Type: IPS TFT/Normal Black
- Display format: 800(RGB)×480
- Controller IC: ST7262
- Interface: RGB
- Input Voltage: 1.65V~3.6V

FEATURES

NO.	ITEM	SPECIFICATION	UNIT
1	Panel Size	5.0	inch
2	Outline Dimension	120.70(W) x 75.80(H) x 2.83(T) (Excluding FPC)	mm
3	Viewing Area	110.70 x 67.40	mm
4	Active Area	108.00 x 64.80	mm
5	Number of Pixels	800(H) × 3(RGB) × 480(V)	pixels
6	Dot Pitch	0.045×0.135	mm
7	Pixel Pitch	0.135×0.135	mm
8	Pixel arrangement	RGB vertical stripe	-
9	Display Mode	Normal Black	-
10	Viewing Direction	ALL(IPS)	-
11	Display Color	16.7M	-
12	Luminance(cd/m ²)	800(TYP.)	cd/m ²
13	Contrast Ratio	1500(TYP.)	-
14	Interface	RGB	-
15	Backlight	White LED	-
16	Drive IC	ST7262	-
17	Operation Temperature	-20~70	°C
18	Storage Temperature	-30~80	°C

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	120.70 x 75.80	mm
Viewing Area	110.70 x 67.40	
Active Area	108.00 x 64.80	
Height	2.83	

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Analog Power Supply Voltage	VCI	-0.3	-	3.6	V
Digital Power Supply Voltage	VDD	-0.3	-	3.6	
I/O Power Supply Voltage	IOVCC	-0.3	-	3.6	

ELECTRICAL CHARACTERISTICS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN	TYP	MAX	
Analog Supply Voltage	VCI	Ta =25℃	3.0	3.3	3.6	V
Digital Supply Voltage	VDD		3.0	3.3	3.6	
I/O Supply Voltage	IOVCC		1.65	1.8/2.8	3.6	
LED Forward Voltage	Vf	Ta =25℃	16.8	18.0	20.4	V
LED Forward Current	If		-	60	-	mA
Average Brightness	IV	Backlight Current If=60mA	-	800	-	cd/m ²

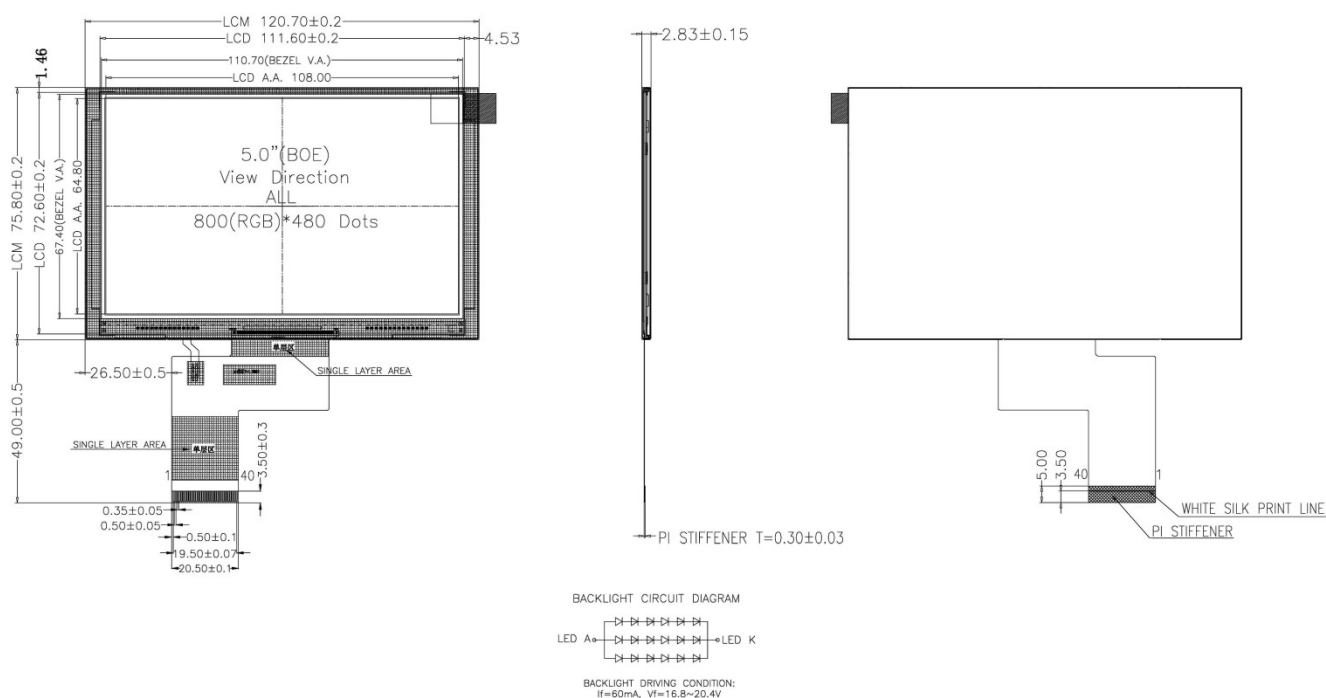
For detailed information, please refer to the “Product Numbering System” document.

PIN DESCRIPTION			
NO.	SYMBOL	I/O	FUNCTION
1	LEDK	P	Backlight cathode
2	LEDA	P	Backlight anode
3	GND	P	Ground
4	VCC	P	Power Supply Voltage
5	R0	I/O	Red Data Bus
6	R1	I/O	Red Data Bus
7	R2	I/O	Red Data Bus
8	R3	I/O	Red Data Bus
9	R4	I/O	Red Data Bus
10	R5	I/O	Red Data Bus
11	R6	I/O	Red Data Bus
12	R7	I/O	Red Data Bus
13	G0	I/O	Green Data Bus
14	G1	I/O	Green Data Bus
15	G2	I/O	Green Data Bus
16	G3	I/O	Green Data Bus
17	G4	I/O	Green Data Bus
18	G5	I/O	Green Data Bus
19	G6	I/O	Green Data Bus

20	G7	I/O	Green Data Bus
21	B0	I/O	Blue Data Bus
22	B1	I/O	Blue Data Bus
23	B2	I/O	Blue Data Bus
24	B3	I/O	Blue Data Bus
25	B4	I/O	Blue Data Bus
26	B5	I/O	Blue Data Bus
27	B6	I/O	Blue Data Bus
28	B7	I/O	Blue Data Bus
29	GND	P	Ground
30	CLK	I	Clock
31	DISP	I	Normal Display and Standby Mode Select Pin
32	HSYNC	I	Line Sync Signal
33	VSYSN	I	Frame Sync Signal
34	DE	I	Data Enable Pin
35	NC	-	No Connection
36	GND	-	Ground
37	XR/NC	-	No Connection
38	YD/NC	-	No Connection
39	XL/NC	-	No Connection
40	YU/NC	-	No Connection

I/O: I: input, O: output, P: power

DIMENSIONS in millimeters



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