

5.0 inch TFT LCD



PROFILE

- Type: IPS TFT/Normal Black
- Display format: 480(RGB)×854
- Controller IC: ST7701S
- Interface: RGB 18bit+SPI3 interface free selection
- Input Voltage: 1.65V~3.3V

FEATURES

NO.	ITEM	SPECIFICATION	UNIT
1	Panel Size	5.0	inch
2	Outline Dimension	70.69(W) x 129.19(H) x 3.29(T) (Excluding FPC)	mm
3	Viewing Area	62.56 x 110.53	mm
4	Active Area	61.56 x 109.53	mm
5	Number of Pixels	480(H) × 3(RGB) × 854(V)	pixels
7	Pixel arrangement	RGB vertical stripe	-
8	Display Mode	Normal Black	-
9	Viewing Direction	ALL(IPS)	-
10	Display Color	262K	-
11	Luminance(cd/m ²)	300(TYP.)	cd/m ²
12	Contrast Ratio	800(TYP.)	-
13	Interface	RGB 18bit+SPI3 interface free selection	-
14	Backlight	White LED	-
15	Drive IC	ST7701S	-
16	Operation Temperature	-20~70	°C
17	Storage Temperature	-30~80	°C

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	70.69 x 129.19	mm
Viewing Area	62.56 x 110.53	
Active Area	61.56 x 109.53	
Height	3.29	

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Supply Voltage	VDD	-0.3	-	4.6	V
Supply Voltage for logic	VDDI	-0.3	-	4.6	

ELECTRICAL CHARACTERISTICS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN	TYP	MAX	
Power supply	VCI	Ta =25℃	2.4	-	3.3	V
GPIO Power Supply	IOVCC		1.65	-	3.3	
LED Forward Voltage	Vf	Ta =25℃	-	19.2	-	V
LED Forward Current	If		-	40	-	mA
Average Brightness	IV	Backlight Current If=40mA	250	300	-	cd/m ²

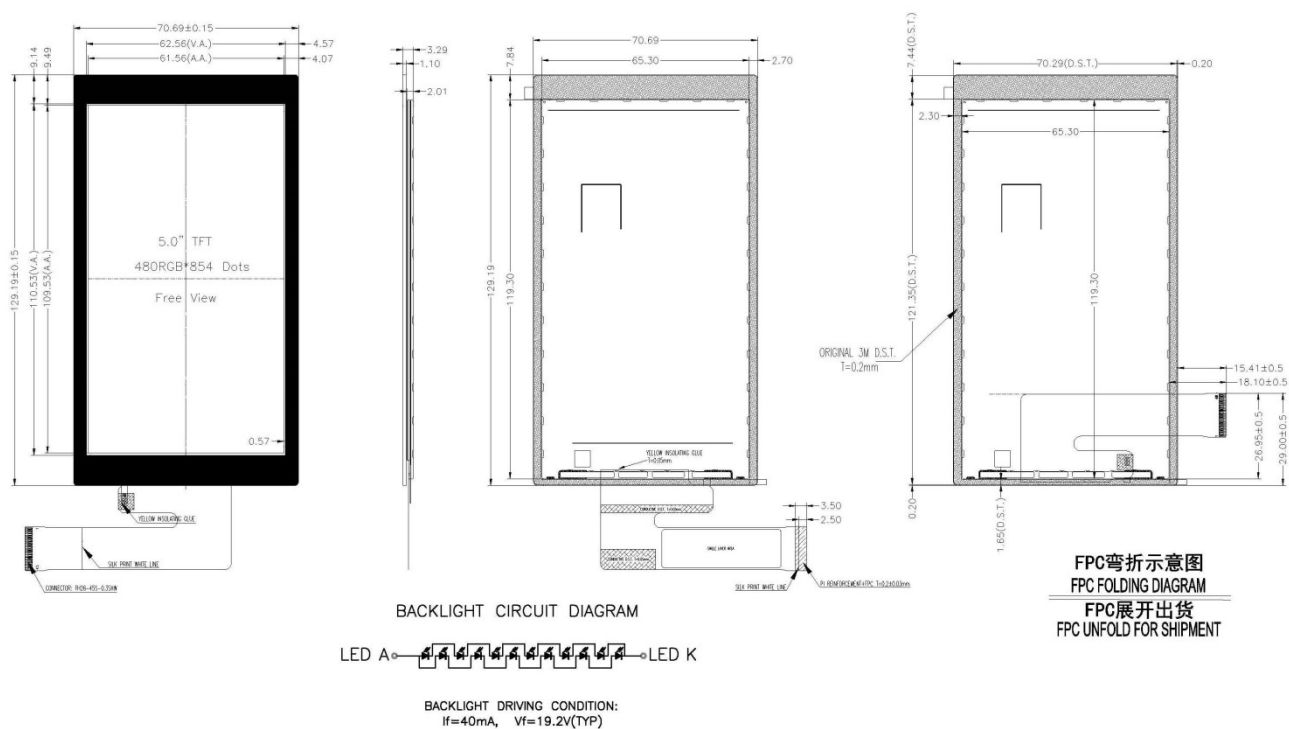
For detailed information, please refer to the “Product Numbering System” document.

PIN DESCRIPTION			
NO.	SYMBOL	I/O	FUNCTION
1	GND	P	Ground
2-3	LED_A	P	LED Power supply
4-5	LED_K	P	LED Power supply
6-7	GND	P	Ground
8	VCC	P	Power supply for analog circuit. VCC=2.4-3.3V
9	IOVCC	P	Power supply for GPIO. IOVCC=1.65~3.3V
10	RESET	I	Reset signal pin
11	VSNC	I	Frame synchronizing signal for RGB interface operation
12	HSNC	I	Line synchronizing signal for RGB interface operation
13	GND	P	Ground.
14	PCLK	I	Dot clock signal for RGB interface operation
15	GND	P	Ground
16	DE	I	Data enable signal for RGB interface operation
17-22	R5-R0	I/O	Data bus
23-28	G5-G0	I/O	Data bus
29-34	B5-B0	I/O	Data bus
35	NC	-	No connection
36	SDA	I	SDA: Serial data input/output bidirectional pin for SPI Interface.
37	NC	-	No connection

38	SCLK	I	SCL: Serial clock input for SPI interface.
39	NC	-	No connection
40	CS	I	A chip select signal.
41	ID1	I	Supplier ID
42	ID2	I	Supplier ID
43	ID3	I	Supplier ID
44-45	NC	-	No connect.

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

DIMENSIONS in millimeters



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