

1. General Specifications

No.	Item	Specification	Unit
1	Display Size (Diagonal)	3.0	inch
2	Display Resolution	480(H) × RGB × 854 (V)	pixels
3	Pixel Pitch	26(H) × 78 (V)	um
4	LCM Outline Dimension (Without FPC)	42.70 (W) × 74.70 (H) × 2.5 (T)	mm
5	LCD Outline Dimension	40.33 (W) × 72.86 (H) × 1.0 (T)	mm
6	LCD Active Area	37.44 (W) × 66.61 (H)	mm
7	View Direction (Gray Inversion)	FULL VIEW	-
8	Driver IC	ST7701S-G5	-
9	Pixel Arrangement	RGB-Stripe	-
10	Display Mode	Normal Black	-
11	Pixel driving Element	a-Si TFT	-
12	LCD Transmittance	Typ.: 3.5% Min:3.1%	-
13	LCD Contrast Ratio	Typ.: 1000 Min:800	-
14	FPC Version	Z30010-P40F-R V6	-
15	Interface	RGB+SPI	-
16	Operating Temperature	-20°C~ 70°C	-
17	Storage Temperature	-30°C~ 80°C	-
18	Backlight Arrangement	LED/6 Series 1 Parallel (6 lights in total)	-
19	Luminance	560	nit
20	Weight	0.017	kg

2. Interface Definition Description

PIN NO.	PIN DEF.	FUNCTION DESC.
1	LEDK	POWER SUPPLY- FOR BACKLIGHT CATHODE
2	LEDA	POWER SUPPLY- FOR BACKLIGHT ANODE
3	VCC	POWER SUPPLY (2.8V/3.3V)
5-12	R0-R7	DATA BUS
13-20	G0-G7	DATA BUS
21-28	B0-B7	DATA BUS
29	GND	Ground
30	CLK	Pixel clock signal in RGB I/F
31	DISP	Display on/off
32	HSYNC	Horizontal sync. Signal in RGB I/F.
33	VSYNC	Vertical sync. Signal in RGB I/F.
34	DEN	Data enable signal in RGB I/F DE mode.
35	NC	No Connection
36	GND	Ground
37	RESET	LCM RESET PIN
38	SDI	LCM SPI data (SDA) data input (MOSI)
39	SCL	LCM SPI clock (SCL) clock (SCLK)
40	CS	Chip Select input PIN
RESET voltage should be consistent with VDDI voltage, or there probably is black screen fault when power on.		

3. Mechanical Drawing

