1. General Specifications

Feature		Spec
Display Spec.	Size	3.5 inch
	Resolution	240(RGB) x 320
	Interface	RGB 6 bit＋
	Color Depth	262K
	Technology Type	a-Si
	Pixel Pitch (mm)	0.2235x0.2235
	Pixel Configuration	R.G.B. Vertical Stripe
	Display Mode	Transflective
	Surface Treatment(Up Polarizer)	HC
	Viewing Direction	6 o'clock
	Gray Scale Inversion Direction	12 o'clock
	LCM (W x H x D) (mm)	64.0x85.0x2.93
Mechanical Characteristics	Active Area(mm)	53.64x71.52
	With /Without TSP	Without TSP
	Weight (g)	33.5
	LED Numbers	6 LEDs

Note 1: Viewing direction for best image quality is different from TFT definition, there is a 180 degree shift.
Note 2: Requirements on Environmental Protection: Q/S0002
Note 3: LCM weight tolerance: ± 5%

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2. Input/Output Terminals

2.1 J1 Pin Assignment

No	Symbol	I/O	Description	Comment
1	VL1	P	Power supply for LED(High voltage)	
2	GND	P	Ground	
3	VL2	P	Power supply for LED(Low voltage)	
4	GND	P	Ground	
5	VSHD	P	Power supply for digital	
6	GND	P	Ground	
7	GND	P	Ground	
8	GND	P	Ground	
9	VSYNC	I	Vertical sync. in RGB mode	
10	GND	P	Ground	
11	RESET	I	Reset(Low active)	
12	GND	P	Ground	
13	GND	P	Ground	
14	GND	P	Ground	
15	CS	I	Chip select input(Low enable)	
16	GND	P	Ground	
17	SDO	O	Serial data output	
18	SDI	I	Serial data input	
19	GND	P	Ground	
20	SCL	I	Serial interface clock	
21	GND	P	Ground	
22	B5	I	Blue data input(MSB)	
23	B4	I	Blue data input	
24	B3	I	Blue data input	
25	B2	I	Blue data input	
26	B1	I	Blue data input	
27	B0	I	Blue data input(LSB)	
28	ENAB	I	Data enable in RGB mode	
29	GND	P	Ground	
30	HSYNC	I	Horizontal sync. in RGB mode	
31	GND	P	Ground	
32	DCLK	I	Pixel clock signal in RGB mode	
33	GND	P	Ground	
34	G5	I	Green data input(MSB)	
35	G4	I	Green data input	
36	G3	I	Green data input	
37	G2	I	Green data input	
38	G1	I	Green data input	
39	G0	I	Green data input(LSB)	
40	GND	P	Ground	
41	R5	I	Red data input(MSB)	
42	R4	I	Red data input	
43	R3	I	Red data input	
44	R2	I	Red data input	

45	R1	I	Red data input	
46	R0	I	Red data input(LSB)	
47	GND	P	Ground	
48	GND	P	Ground	
49	GND	P	Ground	
50	GND	P	Ground	

Note1: I/O definition:
I----Input O----Output P----Power/Ground

3 Absolute Maximum Ratings

3.1 Driving TFT LCD Panel

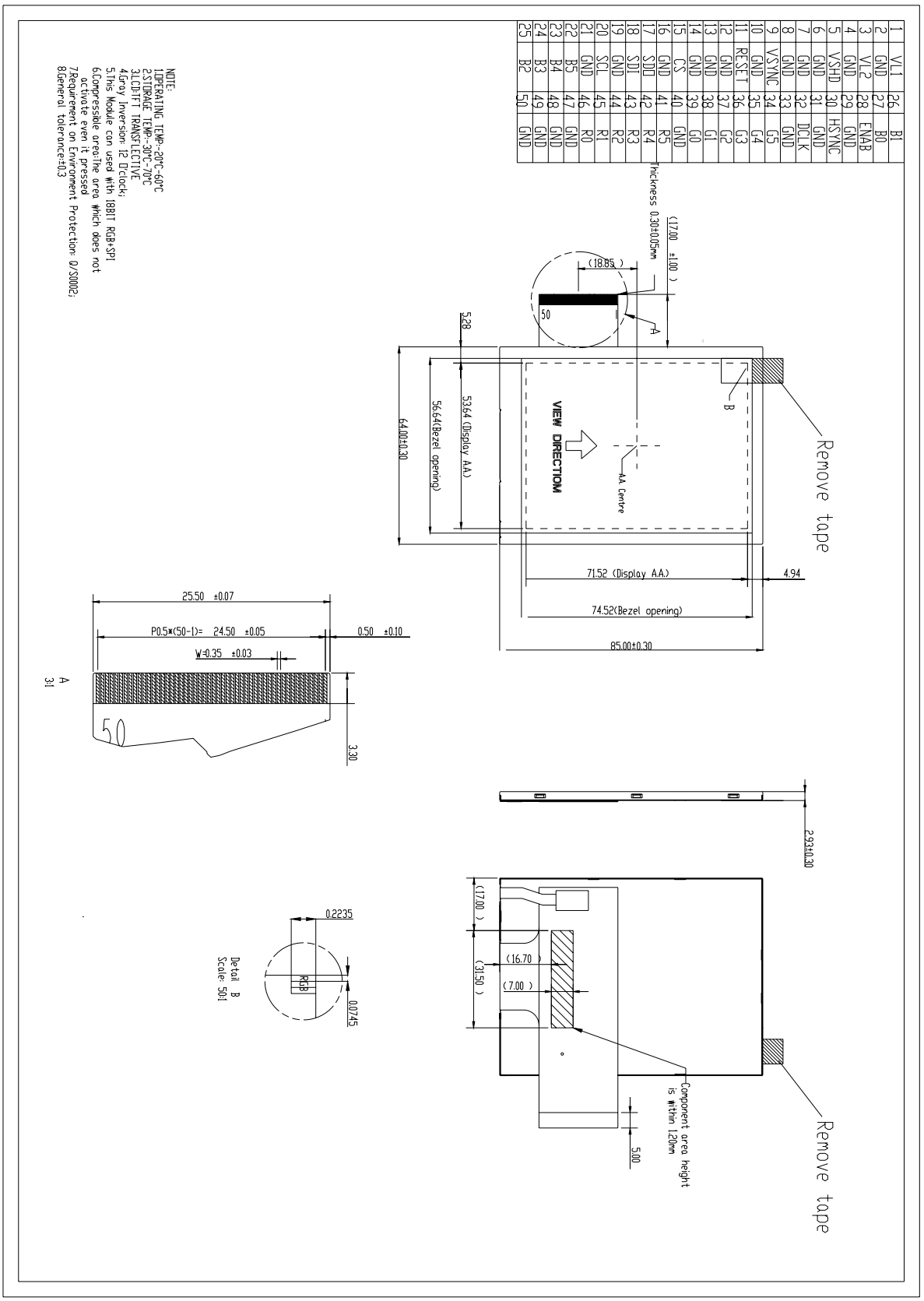
GND=0V,Ta=25℃

Item	Symbol	Min	Max	Unit	Remark
Supply Voltage	VSHD	-0.3	4.6	V	
Driver supply voltage	VGH-VGL	-0.3	+32.0	V	
Logic input voltage range	VIN	-0.3	VSHD + 0.3	V	
Logic output voltage range	VO	-0.3	VSHD + 0.3	V	
Operating temperature	Top	-20.0	60.0	℃	Note1
Storage temperature	Tst	-30.0	70.0	℃	Note1

Note1: The parameter is for driver IC (gate driver, source driver) only.
Note2: Signals include R0~R5, G0~G5, B0~B5, DCLK, Hsync, Vsync,Reset,CS,SDI,SCL,.ENABLE

Table 3.1 absolute maximum rating

8. Mechanical Drawing



1	VL1	26	B1
2	GND	27	B0
3	VL2	28	ENAB
4	GND	29	GND
5	VSHD	30	HSYNC
6	GND	31	GND
7	GND	32	DCLK
8	GND	33	GND
9	VSYNC	34	G5
10	GND	35	G4
11	RESET	36	G3
12	GND	37	G2
13	GND	38	G1
14	GND	39	G0
15	CS	40	GND
16	GND	41	R5
17	SDO	42	R4
18	SDI	43	R3
19	GND	44	R2
20	SCL	45	R1
21	GND	46	R0
22	B5	47	GND
23	B4	48	GND
24	B3	49	GND
25	B2	50	GND