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SPECIFICATION

CUSTOMER :

MODULE NO.: WF57CTLECD0#000

SUMMARY

This technical specification applies to 5.7“ color TFT-LCD panel. The 5.7“ color TFT-LCD panel is designed for industry, vehicle application and other electronic products which require high quality flat panel displays. This module follows RoHS.

FEATURES

High Resolution: 230,400 Dots (320 RGB x 240). Image Reversion: Up/Down and Left/Right.

Item	Dimension	Unit
Dot Matrix	320 RGBx240(TFT)	dots
Screen size (inch)	5.7 inch	
Module dimension	143.5x 104.1 x 14.0(Max)	mm
Active area	115.25 x 86.4	mm
Dot pitch	0.12 x 0.36	mm
Color configuration	RGB-Strip	
Controller/driver IC	HX8218-A+HZ8615A (or compatible)	
LCD type	TFT, Negative, Transmissive (In LCD production, It will occur slightly color difference. We can only guarantee the same color in the same batch.)	
View direction	12 o’clock	
Backlight Type	LED,Normally White	

first FC components

Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	V_{DD}	—	3.0	3.3	3.6	V
Input High Volt.	V_{IH}	—	0.7 V_{DD}	—	+5.5	V
Input Low Volt.	V_{IL}	—	0	—	0.3 V_{DD}	V
Power Supply Voltage	V_{GH}	Ta=25℃	10		30	V
	V_{GL}	Ta=25℃	-17		-5	V
Supply Current	I_{VDD}	V_{DD}=3.3V	—	5	8	mA

Absolute Maximum Ratings

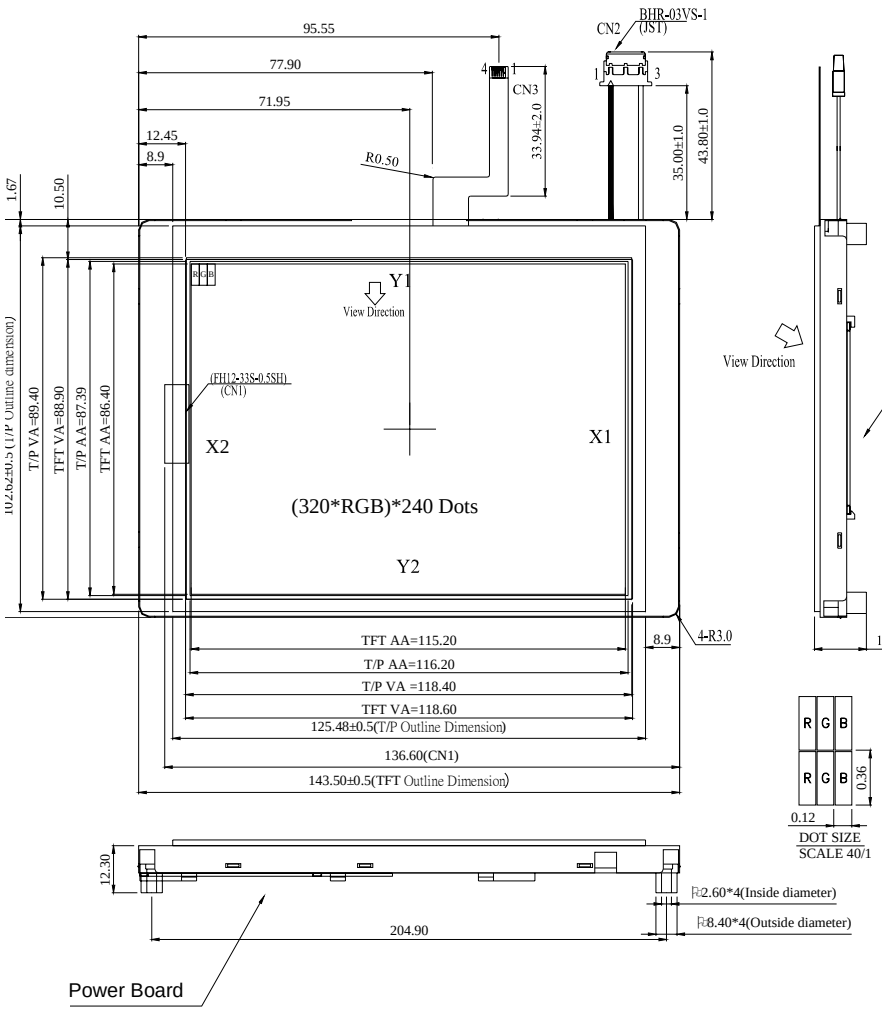
Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	℃
Storage Temperature	T_{ST}	-30	—	+80	℃
Power Supply Voltage	V_{GH}	-0.3	—	32.0	V
	V_{GL}	-22	—	0.3	V
	V_{GH} - V_{GL}	-0.3	—	+45	V

Interface Pin Function

5-1 LCM PIN Definition

Pin No.	Symbol	I/O	Description	Remark
1	GND	I	Ground	
2	CK	I	Clock signal for sampling each data signal	
3	Hsync	I	Horizontal synchronous signal	
4	Vsync	I	Vertical synchronous signal	
5	GND	I	Ground	
6	R0	I	Red Data bit(LSB)	
7	R1	I	Red Data bit	
8	R2	I	Red Data bit	
9	R3	I	Red Data bit	
10	R4	I	Red Data bit	
11	R5	I	Red Data bit(MSB)	
12	GND	I	Ground	
13	G0	I	Green Data bit(LSB)	
14	G1	I	Green Data bit	
15	G2	I	Green Data bit	
16	G3	I	Green Data bit	
17	G4	I	Green Data bit	
18	G5	I	Green Data bit(MSB)	
19	GND	I	Ground	
20	B0	I	Blue Data bit(LSB)	
21	B1	I	Blue Data bit	
22	B2	I	Blue Data bit	
23	B3	I	Blue Data bit	
24	B4	I	Blue Data bit	
25	B5	I	Blue Data bit(MSB)	
26	GND	I	Ground	
27	ENAB	I	Signal to settle the horizontal display position	Note 1
28	Vcc	I	+3.3V power supply	
29	Vcc	I	+3.3V power supply	
30	R/L	I	Selection signal for horizontal scanning direction (L: Normally H: Right-and-left reversal)	Note 2
31	U/D	I	Selection signal for vertical scanning direction (H: Normally L: Up-and-Down reversal	Note 2
32	NC	I	No connection	
33	GND	I	ground	

7.Contour Drawing



PIN NO.	SYMBOL	PIN NO.	SYMBOL
1	GND	18	G5
2	CK	19	GND
3	Hsync	20	B0
4	Vsync	21	B1
5	GND	22	B2
6	R0	23	B3
7	R1	24	B4
8	R2	25	B5
9	R3	26	GND
10	R4	27	ENAB
11	R5	28	Vcc
12	GND	29	Vcc
13	G0	30	R/L
14	G1	31	U/D
15	G2	32	NC
16	G3	33	GND
17	G4		

CN1

PIN NO.	SYMBOL
1	X1
2	Y1
3	X2
3	Y2

CN3

PIN NO.	SYMBOL
1	A
2	NC
3	K

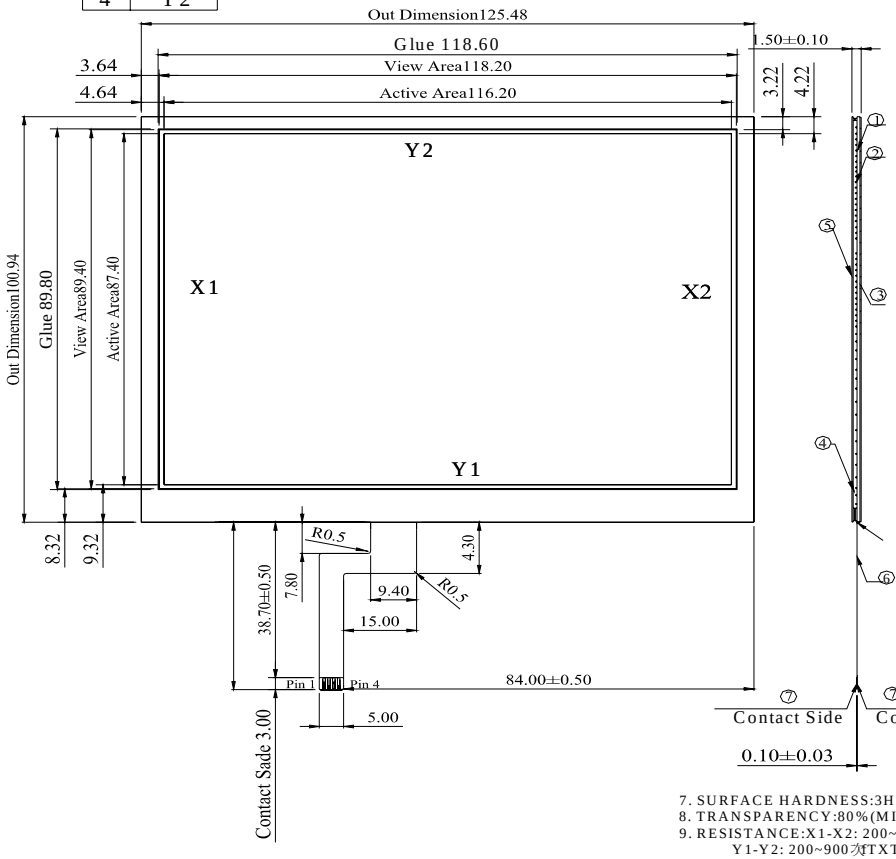
CN2

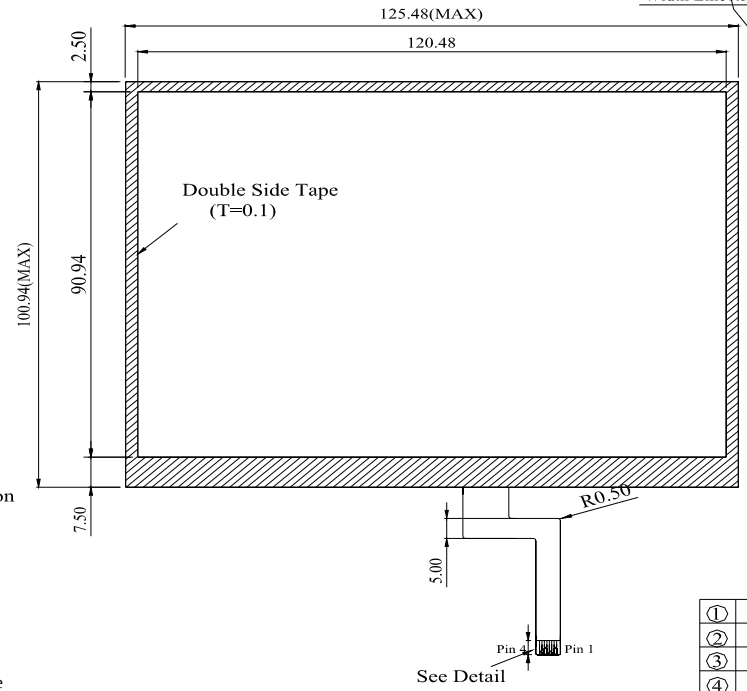
The non-specified tolerance of dimension is ±0.2mm.

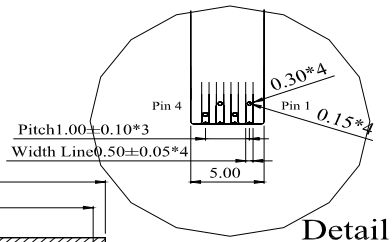
9. Touch panel Information

PIN OUT	
1	X1
2	Y1
3	X2
4	Y2

PIN1-PIN3	200ohm-900ohm
PIN2-PIN4	200ohm-900ohm







①	1.10mm ITO Glass
②	Spacer DOT
③	Double-faced adhesive
④	Adhesive
⑤	0.188mm ITO Film/Anti Glare
⑥	FPC Tail
⑦	Contact Side

NOTES:
1. TOUCH PANEL TYPE:ANALOG RESISTANCE,4 LINES;
2. FILM MATERIAL: SINGLE-LAYER FILM WITH ANTI-GLARE;
3. OPERATION VOLTAGE: DC 7V(MAX);
4. INPUT MODE: PEN OR FINGER,80g(MIN);
5. LINEARITY:1.5%MAX;
6. RESPONSE TIME: 10ms(MAX);
7. SURFACE HARDNESS:3H (MIN) ;
8. TRANSPARENCY:80%(MIN);
9. RESISTANCE:X1-X2: 200~900次TXT.SHX;;
   Y1-Y2: 200~900次TXT.SHX;;
10. INSURANCE RESISTANCE: 20M次XT.SHX;MIN. (DC 25V);
11. LIFE TIME: 1000000 TIMES(MIN);
12. OPERATION TEMPERATURE: -20～70～P STORAGE TEMPERATURE: -30～80～P13. UNMARKED TOLERANCE: ㊣0.2;
14. REFERENCE DIMENSION:( );
15. REQUIREMENTS ON ENVIRONMENTAL PROTECTION:ROHS.