Winstar Display Co., LTD
華凌光電股份有限公司
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SPECIFICATION

CUSTOMER : _____

MODULE NO.: WF35-320240YD#001-FC

General Specifications

Item	Dimension	Unit
Size	3.5	inch
Dot Matrix	320 x RGBx240(TFT)	dots
Module dimension	76.9x 63.9x 4.36	mm
Active area	70.08 x 52.56	mm
Dot pitch	0.073 x 0.219	mm
LCD type	TFT, Normally White, Transmissive	
View Direction	12o'clock	
Gray Scale Inversion Direction	6 o'clock	
Backlight Type	LED ,Normally White	
With /Without TP	With RTP	
Surface	Anti-Glare	

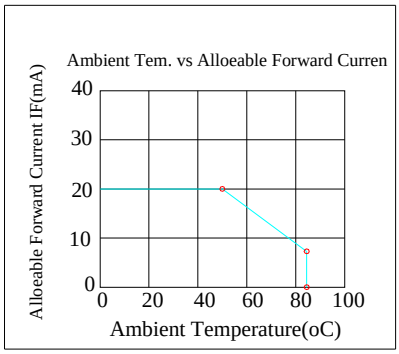
first FC components

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	℃
Storage Temperature	TST	-30	—	+80	℃

Note: Device is subject to be damaged permanently if stresses beyond those absolute maximum ratings listed above

1. Temp. ≦60℃, 90% RH MAX. Temp.＞60℃, Absolute humidity shall be less than 90% RH at 60℃



Electrical Characteristics

Operating conditions:

Item	Symbol	Condition	Min	Typ	Max	Unit	Remark
Supply Voltage For LCM	VCC	—	3.0	3.3	3.6	V	
Supply Current For LCM	ICC	—	—	12	18	mA	Note 1

Note 1 : This value is test for VCC =3.3V , Ta=25 ℃ only

LED driving conditions

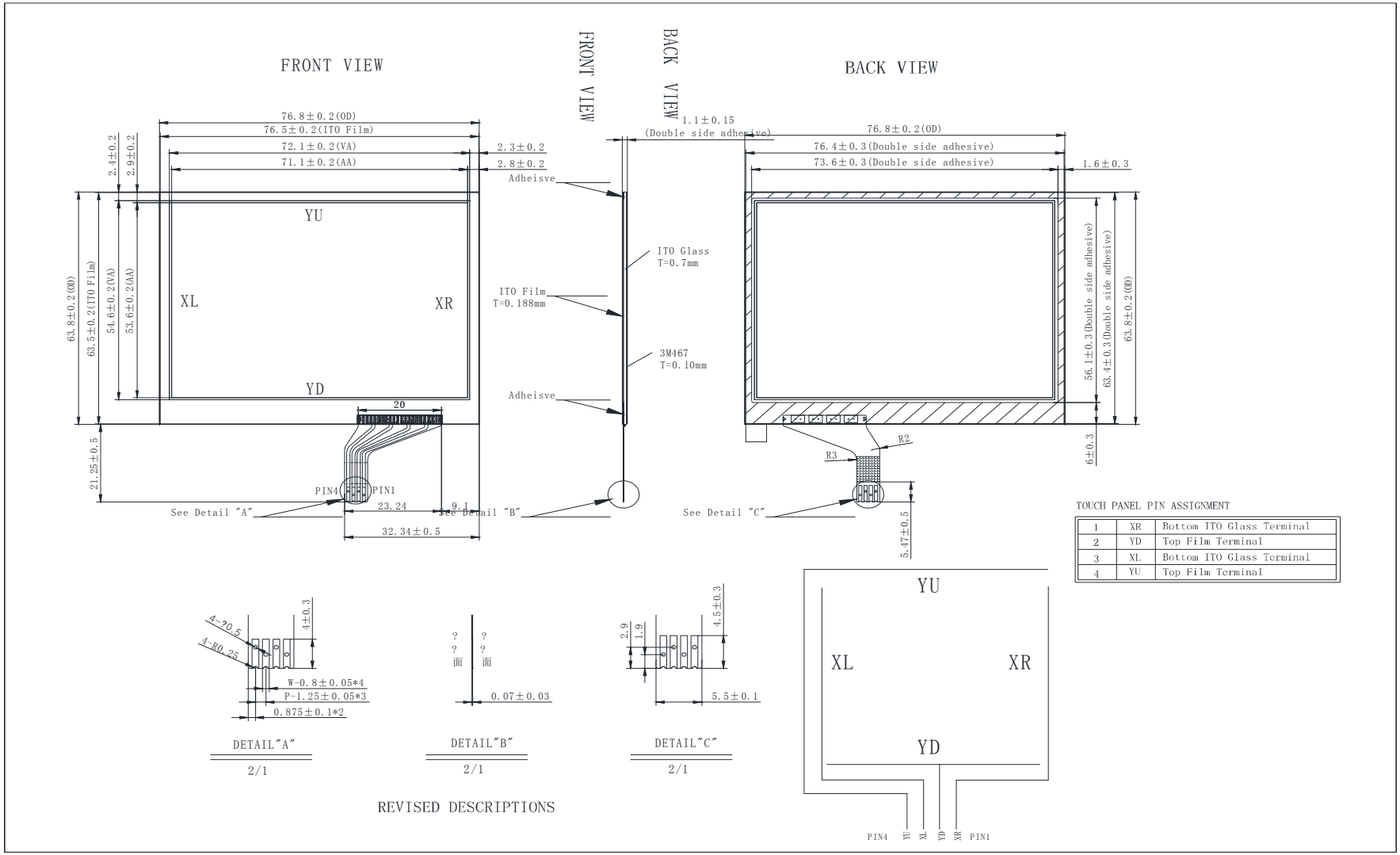
Parameter	Symbol	Min.	Typ.	Max.	Unit	Remark
LED current		-	20	-	mA	
Power Consumption		348	384	408	mW	
LED voltage	LED+	17.4	19.2	20.4	V	Note 1
LED Life Time		-	50,000	-	Hr	Note 2,3,4

Interface

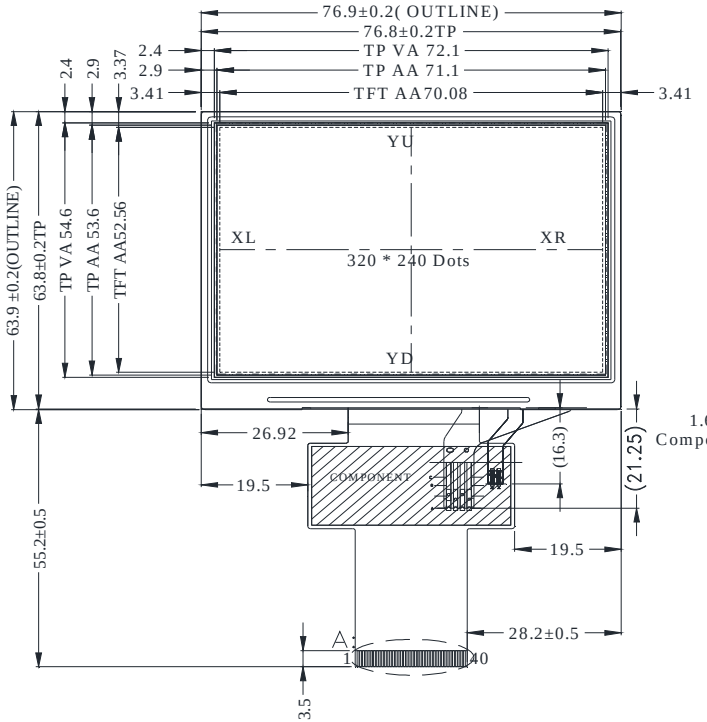
LCM PIN Definition

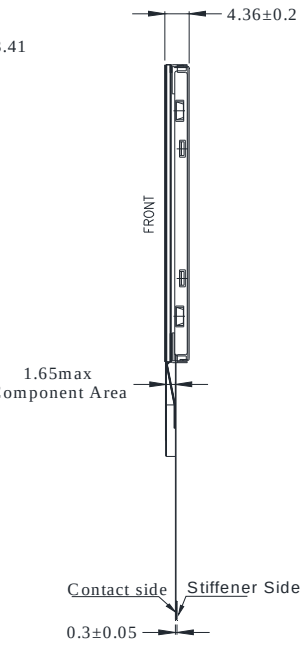
Pin	Symbol	Function	Remark
1	VLED-	Power for LED backlight cathode	
2	VLED+	Power for LED backlight anode	
3	DGND	System ground pin of the IC. Connect to system ground.	
4	VCC	Power Supply	
5	R0	Red Data bit(LSB)	
6	R1	Red Data bit	
7	R2	Red Data bit	
8	R3	Red Data bit	
9	R4	Red Data bit	
10	R5	Red Data bit	
11	R6	Red Data bit	
12	R7	Red Data bit (MSB)	
13	G0	Green Data bit(LSB)	
14	G1	Green Data bit	
15	G2	Green Data bit	
16	G3	Green Data bit	
17	G4	Green Data bit	
18	G5	Green Data bit	
19	G6	Green Data bit	
20	G7	Green Data bit (MSB)	
21	B0	Blue Data bit(LSB)	
22	B1	Blue Data bit	
23	B2	Blue Data bit	
24	B3	Blue Data bit	
25	B4	Blue Data bit	
26	B5	Blue Data bit	
27	B6	Blue Data bit	
28	B7	Blue Data bit (MSB)	
29	AVSS	Grounding for analog circuit Connect to system ground	
30	CLK	Dot-clock signal and oscillator source	
31	NC	No connect	
32	HSYNC	Horizontal sync signal	Note1
33	VSYNC	Vertical sync signal	Note1
34	DE	Data Enable signal	Note1
35	NC	No connect	
36	RESET	Hardware reset	
37	XR	Right electrode	
38	YD	Bottom electrode	
39	XL	Left electrode	
40	YU	Top electrode	

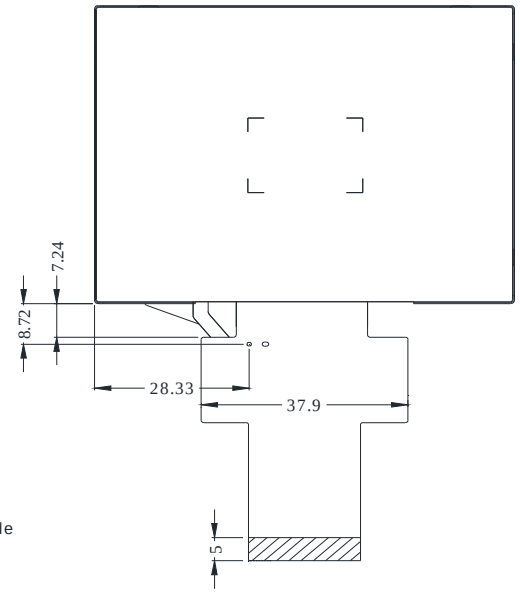
Touch Panel Information



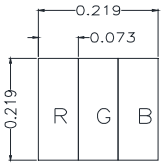
Contour Drawing

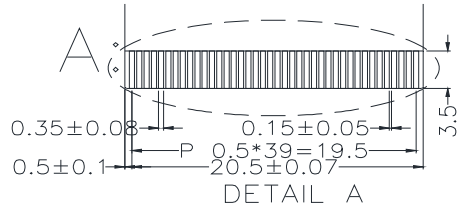






PIN NO.	SYMBOL	PIN NO.	SYMBOL
1	VLED-	21	B0
2	VLED+	22	B1
3	DGND	23	B2
4	VCC	24	B3
5	R0	25	B4
6	R1	26	B5
7	R2	27	B6
8	R3	28	B7
9	R4	29	AVSS
10	R5	30	CLK
11	R6	31	NC
12	R7	32	Hsync
13	G0	33	Vsync
14	G1	34	DE
15	G2	35	NC
16	G3	36	RESET
17	G4	37	XR
18	G5	38	YD
19	G6	39	XL
20	G7	40	YU





The non-specified tolerance of dimension is ±0.3