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

CUSTOMER : _____

MODULE NO.: WF35-320240L8#005-FC

General Specifications

Item	Dimension	Unit
Size	3.5	inch
Dot Matrix	320 x RGBx240(TFT)	dots
Module dimension	93.5 x 66.44 x 8.6	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	12 o'clock	
Gray Scale Inversion Direction	6 o'clock	
Backlight Type	LED ,Normally White	
Controller IC	SSD1963	
Interface	Digital 8080 family MPU	
With /Without TP	With RTP	
Surface	Anti-Glare	

*Color tone slight changed by temperature and driving voltage.

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	VDD	-	3.0	3.3	3.6	V	-
Power Supply For LCM	IDD	-	-	310	470	mA	Note1
Power Consumption	-	-	-	1020	1690	mW	VDD=3.3V

Note 1 : This value is test for VDD=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	VBL+	17.4	19.2	20.4	V	Note 1
LED Life Time	-	-	50,000	-	Hr	Note 2,3,4

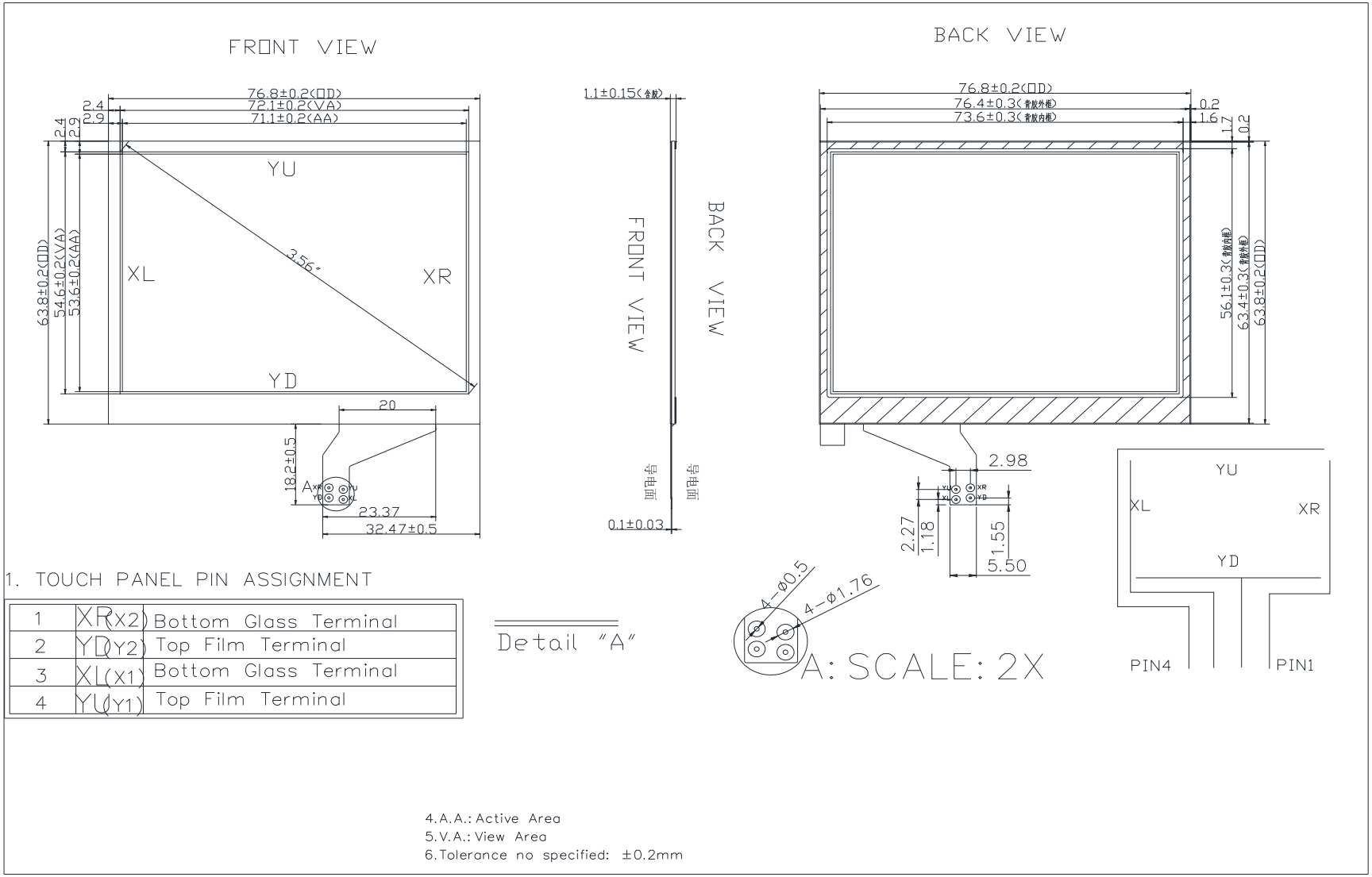
Note 1 : There are 1 Groups LED
Note 2 : Ta = 25 ℃
Note 3 : Brightness to be decreased to 50% of the initial value
Note 4 : The single LED lamp case

Interface

LCM PIN Definition

Pin	Symbol	Function	Remark
1	GND	System ground pin of the IC. Connect to system ground.	
2	VDD	Power Supply : +3.3V	
3	BL_E	Backlight control signal , H: On \ L:Off	
4	D/C	Data/Command select	
5	WR	Write strobe signal	
6	RD	Read strobe signal	
7	DB0	Data bus	
8	DB1	Data bus	
9	DB2	Data bus	
10	DB3	Data bus	
11	DB4	Data bus	
12	DB5	Data bus	
13	DB6	Data bus	
14	DB7	Data bus	
15	CS	Chip select	
16	RES	Hardware reset	
17	NC	No connect	
18	XL	Left electrode	
19	NC	No connect	
20	YU	Top electrode	
21	XR	Right electrode	
22	YD	Down electrode	

Touch Panel Information



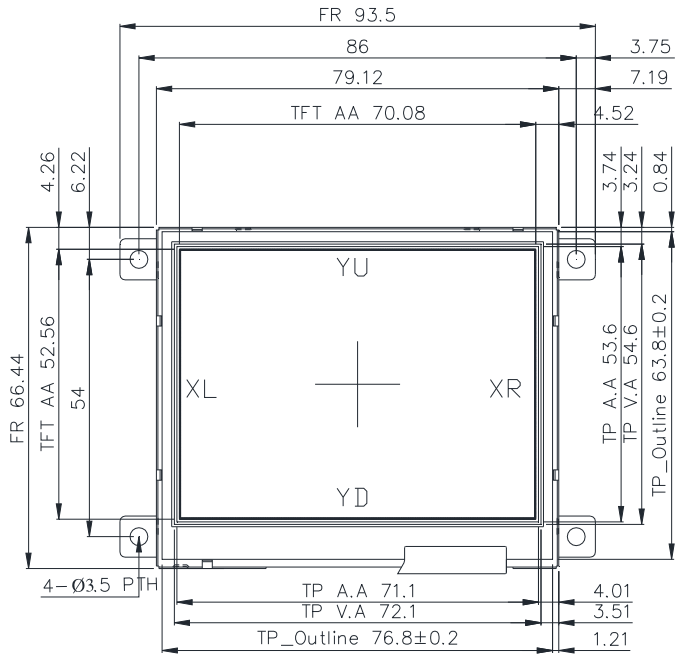
1. TOUCH PANEL PIN ASSIGNMENT

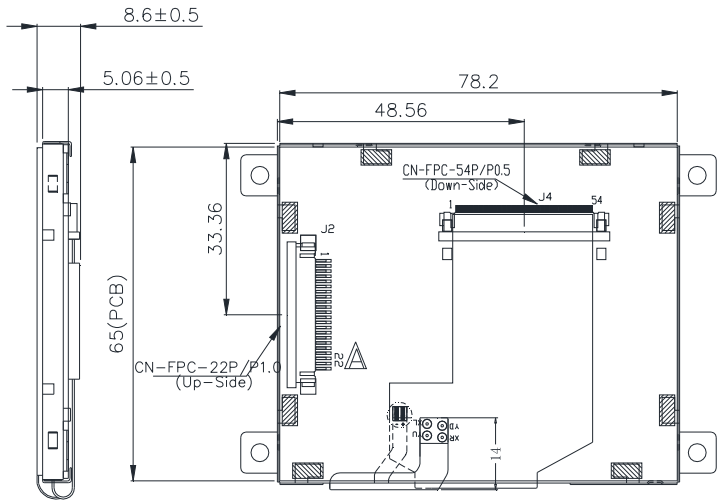
1	XR(X2)	Bottom Glass Terminal
2	YD(Y2)	Top Film Terminal
3	XL(X1)	Bottom Glass Terminal
4	YU(Y1)	Top Film Terminal

Detail "A"

4. A.A.: Active Area
5. V.A.: View Area
6. Tolerance no specified: ±0.2mm

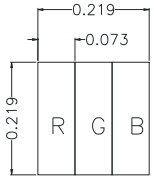
Contour Drawing





CON1

PIN NO	SYMBOL
1	GND
2	VDD
3	BL_E
4	D/C
5	WR
6	RD
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	CS
16	RES
17	NC
18	XL
19	NC
20	YU
21	XR
22	YD



SCALE:100X

The non-specified tolerance of dimension is ±0.3mm.