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

MODULE NO.: WF57-320240QD#005-FC

General Specifications

Item	Dimension	Unit
Size	5.7	inch
Dot Matrix	320 x RGBx240(TFT)	dots
Module dimension	141.12x 101.55 x 15.0	mm
Active area	115.2 x 86.4	mm
Dot pitch	0.12 x 0.36	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 8bit/16bit	
With /Without TP	With RTP	
Surface	Anti-Glare	

*Color tone slight changed by temperature and driving voltage.

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Absolute Maximum Ratings

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

Electrical Characteristics

Operating conditions: (CON3.Pin1=GND, Pin2=VDD)

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For LCM	VDD	—	3.0	3.1	3.3	V
Supply Current For LCM	IDD	—	—	350	550	mA

Backlight driving conditions (CON3.Pin33,34=VLED-, Pin35,36=VLED+)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Operation Current For LED Driver	VLED=5V	250	—	375	mA
Power Consumption	VLED=5V	1250	—	1875	mW
Supply Voltage For LED Driver	VLED+	—	5	—	V
LED Life Time		—	50,000	—	Hr

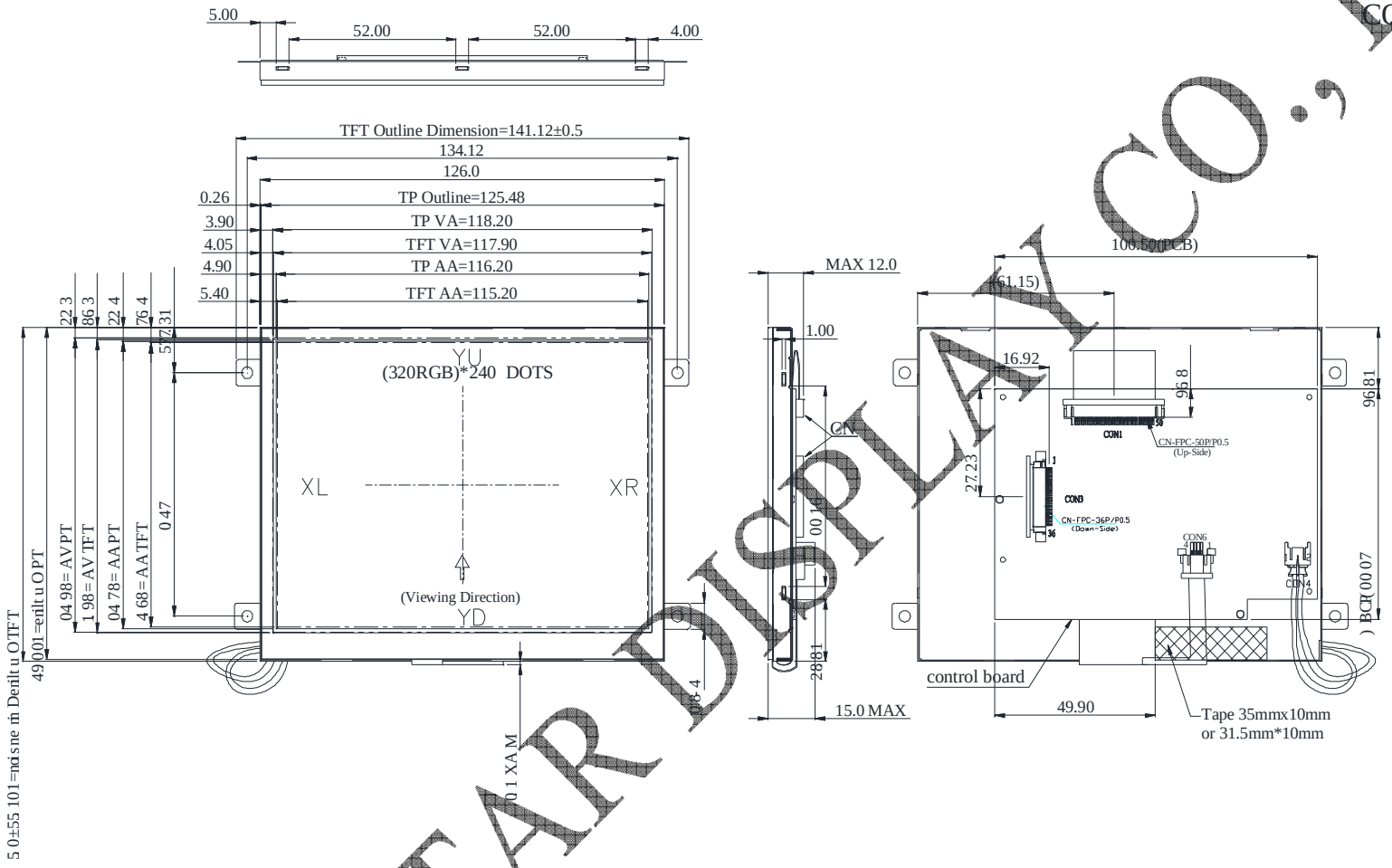
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Interface

Pin	Symbol	Function
1	GND	System ground pin of the IC . Connect to system ground.
2	VDD	Power Supply : +3.3V
3	BLE	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	DB8	Data bus (When select 8bits Mode, this pin is NC)
16	DB9	Data bus (When select 8bits Mode, this pin is NC)
17	DB10	Data bus (When select 8bits Mode, this pin is NC)
18	DB11	Data bus (When select 8bits Mode, this pin is NC)
19	DB12	Data bus (When select 8bits Mode, this pin is NC)
20	DB13	Data bus (When select 8bits Mode, this pin is NC)
21	DB14	Data bus (When select 8bits Mode, this pin is NC)
22	DB15	Data bus (When select 8bits Mode, this pin is NC)
23	NC	No connect
24	NC	No connect
25	CS	Chip select
26	RESET	Hardware reset
27	L/R	Left / right selection; Default L/R=H
28	U/D	Up/down selection; ; Default U/D=L
29	XL	Left electrode
30	YU	Top electrode
31	XR	Right electrode
32	YD	Bottom electrode
33	VLED-	Power for LED Driver IC(GND)
34	VLED-	Power for LED Driver IC(GND)
35	VLED+	Power for LED Driver IC(+5V)
36	VLED+	Power for LED Driver IC(+5V)

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Contour Drawing



CON3

PIN NO.	SYMBOL	PIN NO.	SYMBOL
1	GND	19	DB12
2	VDD	20	DB13
3	BL_E	21	DB14
4	D/C	22	DB15
5	WR	23	NC
6	RD	24	NC
7	DB0	25	CS
8	DB1	26	RESET
9	DB2	27	LR
10	DB3	28	UD
11	DB4	29	XL
12	DB5	30	YU
13	DB6	31	XR
14	DB7	32	YD
15	DB8	33	VLED-
16	DB9	34	VLED-
17	DB10	35	VLED+
18	DB11	36	VLED+

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

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