Winstar Display Co., LTD
華凌光電股份有限公司

SPECIFICATION

MODULE NO.:   WF57WTLECDNN0

General Specifications

Item	Dimension	Unit
Size	5.7	inch
Dot Matrix	320 x RGBx240(TFT)	dots
Module dimension	143.5 x 104.1 x 12.35	mm
Active area	115.2 x 86.4	mm
Dot pitch	0.12 x 0.36	mm
LCD type	TFT, Normally White, Transmissive	
TFT Drive IC	HX8218 +HX8615 or equivalent	
Interface	18-bit RGB	
View Direction	6 o'clock	
Gray Scale Inversion Direction	12 o'clock	
Aspect Ratio	4:3	
Backlight Type	LED,Normally White	
With /Without TP	Without TP	
Surface	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	℃

Electrical Characteristics

1. Operating conditions:

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For LCM	VCC	—	3.0	3.3	3.6	V
Supply Current For LCM	ICC	—	—	110	170	mA
Power Consumption	—	—	—	363	612	mW

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

2. LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current		-	140	-	mA
Power Consumption		1260	-	1470	mW
LED voltage	VBL+	9.0	-	10.5	V
LED Life Time		-	50,000	-	Hr

Interface

1. LCM PIN Definition

Pin	Symbol	Function
1	GND	Ground
2	CK	Clock signal for sampling each data signal(DCLK)
3	Hsync	Horizontal synchronous signal
4	Vsync	Vertical synchronous signal
5	GND	Ground
6	R0	Red Data bit(LSB)
7	R1	Red Data bit
8	R2	Red Data bit
9	R3	Red Data bit
10	R4	Red Data bit
11	R5	Red Data bit(MSB)
12	GND	Ground
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(MSB)
19	GND	Ground
20	B0	Blue Data bit(LSB)
21	B1	Blue Data bit
22	B2	Blue Data bit
23	B3	Blue Data bit
24	B4	Blue Data bit
25	B5	Blue Data bit(MSB)
26	GND	Ground
27	NC	No connect
28	VCC	+3.3V power supply
29	VCC	+3.3V power supply
30	R/L	Selection signal for horizontal scanning direction (L: Normally H: Right-and-left reversal)

31	U/D	Selection signal for vertical scanning direction (H: Normally L: Up-and-Down reversal
32	NC	No connect
33	GND	Ground

2. Backlight PIN Definition

Pin No.	Symbol	Description
1	K	Black, LED_ Cathode
2	NC	No connection
3	A	Red, LED_ Anode

Contour Drawing
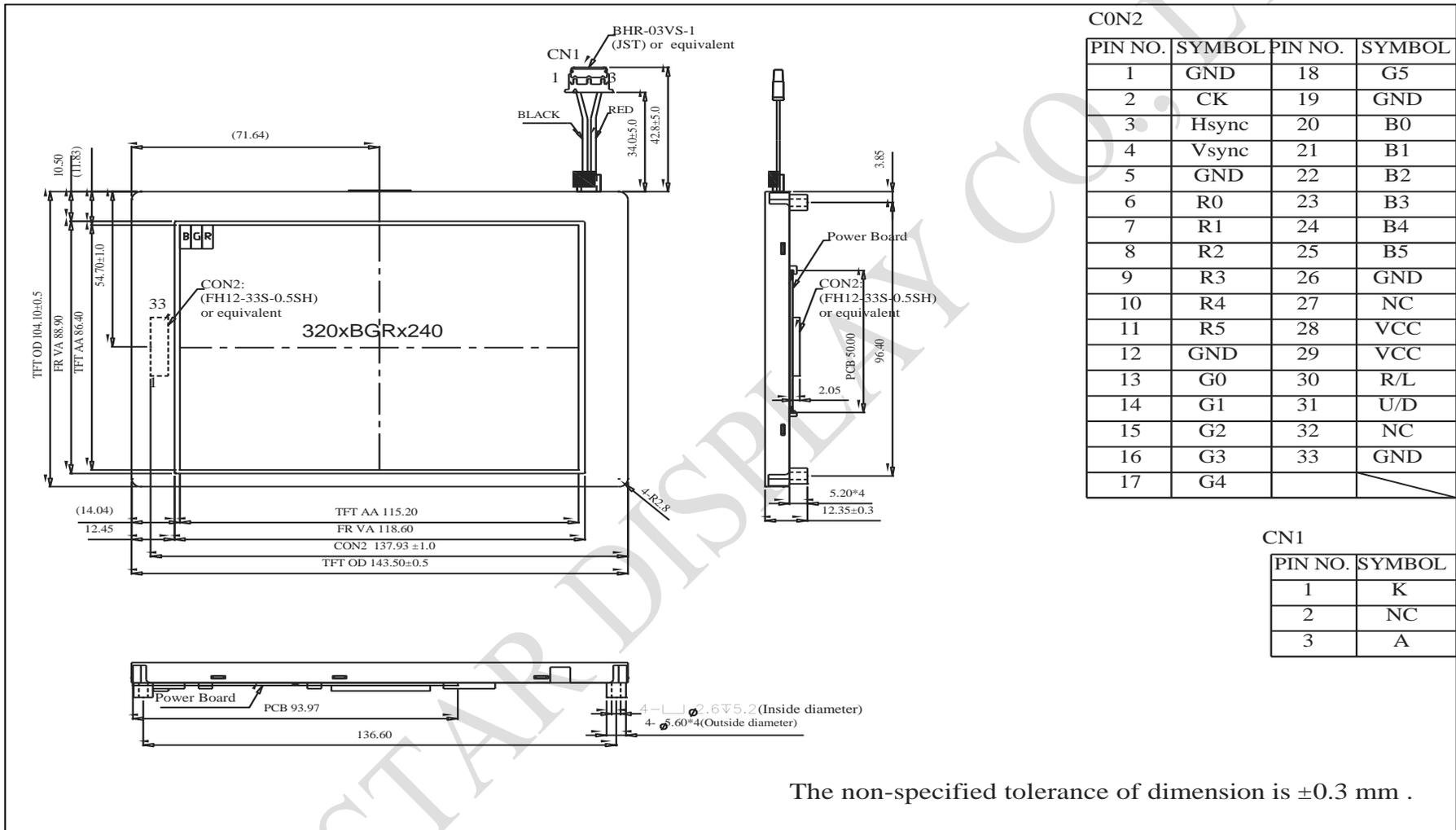
C0N2			
PIN NO.	SYMBOL	PIN NO.	SYMBOL
1	GND	18	G5
2	CK	19	GND
3	Hsync	20	B0
4	Vsync	21	B1
5	GND	22	B2
6	R0	23	B3
7	R1	24	B4
8	R2	25	B5
9	R3	26	GND
10	R4	27	NC
11	R5	28	VCC
12	GND	29	VCC
13	G0	30	R/L
14	G1	31	U/D
15	G2	32	NC
16	G3	33	GND
17	G4		

CN1	
PIN NO.	SYMBOL
1	K
2	NC
3	A

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