

TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



Winstar Display Co., LTD

華凌光電股份有限公司



WEB: <https://www.winstar.com.tw> E-mail: sales@winstar.com.tw

SPECIFICATION

MODULE NO.: WF35YTWACDNNB#

General Specifications

Item	Dimension	Unit
Size	3.5	inch
Dot Matrix	320 x RGBx240(TFT)	dots
Module dimension	76.84(W) x 63.84(H) x 3.27(D)	mm
Active area	70.08 x 52.56	mm
Dot pitch	0.073 x 0.219	mm
LCD type	TFT, Normally black, Transmissive	
View Direction	Wide View	
Driver IC	ST7272A or equivalent	
Interface	24-bit RGB	
Aspect Ratio	4:3	
Backlight Type	LED, Normally White	
Touch Panel	Without Touch Panel	
Surface	Glare	

*Color tone slight changed by temperature and driving voltage.

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-30	—	+85	°C
Storage Temperature	TST	-40	—	+85	°C

Electrical Characteristics

1. Operating conditions:

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage For LCM	VCC	3.0	3.3	3.6	V
Supply Current For LCM	ICC	—	20	30	mA

2. LED driving conditions

Item	Symbol	Min	Typ	Max	Unit
LED current		-	20	-	mA
Power Consumption		324	384	408	mW
LED voltage	VLED+	16.2	19.2	20.4	V
LED Life Time		50,000	-	-	Hr

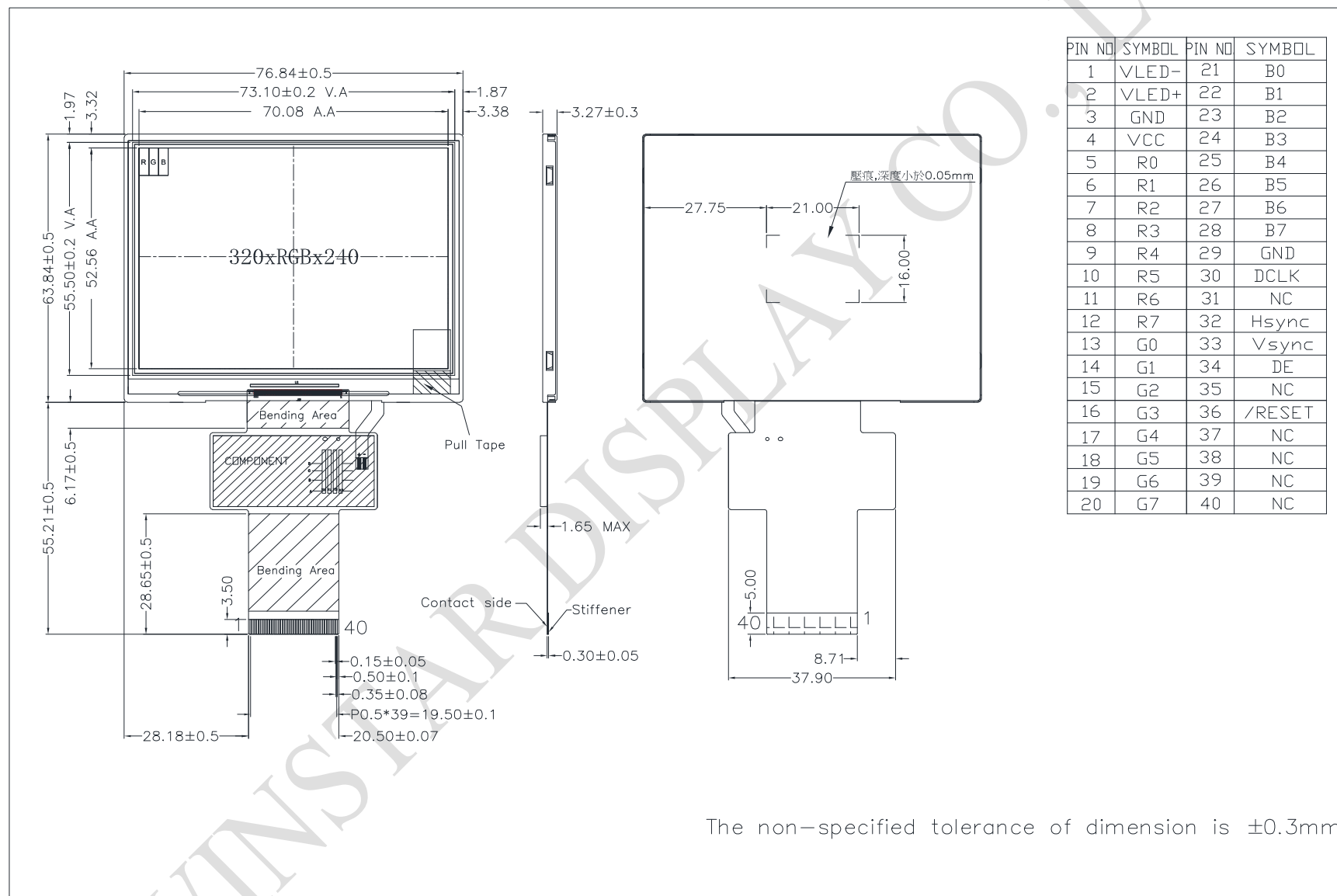
Interface

1. LCM PIN Definition

Pin No.	Symbol	Function
1	VLED-	Power for LED backlight cathode
2	VLED+	Power for LED backlight anode
3	GND	Ground
4	VCC	Power Supply
5	R0	Data bus
6	R1	Data bus
7	R2	Data bus
8	R3	Data bus
9	R4	Data bus
10	R5	Data bus
11	R6	Data bus
12	R7	Data bus
13	G0	Data bus
14	G1	Data bus
15	G2	Data bus
16	G3	Data bus
17	G4	Data bus
18	G5	Data bus
19	G6	Data bus
20	G7	Data bus
21	B0	Data bus
22	B1	Data bus
23	B2	Data bus
24	B3	Data bus
25	B4	Data bus
26	B5	Data bus
27	B6	Data bus
28	B7	Data bus
29	GND	Ground
30	DCLK	Dot-clock signal and oscillator source

31	NC	No connect
32	HSYNC	Horizontal sync signal, default is negative polarity.
33	VSYNC	Vertical sync signal, default is negative polarity.
34	DE	Data input enable. Display access is enabled when DE is "H".
35	NC	No connect
36	/RESET	Hardware reset
37-40	NC	No connect

Contour Drawing



The non-specified tolerance of dimension is $\pm 0.3\text{mm}$.