

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.: WF43WTYBEDAT0#

General Specifications

Item	Dimension	Unit
Size	4.3	inch
Dot Matrix	480 x RGB x 272(TFT)	dots
Module dimension	106.7 x 83.98 x 9.2	mm
Active area	95.04 x 53.86	mm
Pixel pitch	0.066 x 0.198	mm
LCD type	TFT, Normally Black, Transmissive	
View Direction	80/80/80/80	
Aspect Ratio	16:9	
Backlight Type	LED, Normally White	
Controller IC	SSD1963	
Interface	Digital 8080 family MPU 8bit	
Touch Panel	Resistive Touch Screen	
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	°C
Storage Temperature	TST	-30	—	+80	°C

Electrical Characteristics

1. Operating conditions:

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage For LCM	VDD	3.0	3.3	3.6	V
Supply Current For LCM	IDD	—	270	405	mA

2. LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	-	-	20	-	mA
Power Consumption	-	540	640	680	mW
LED voltage	VLED+	27	32	34	V
LED Life Time	-	-	50,000	-	Hr

Interface

1. LCM PIN Definition

Pin	Symbol	Function
1	GND	System round pin of the IC. Connect to system ground.
2	VDD	Power Supply
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	CS	Chip select
16	RESET	Hardware reset
17	NC	No connection
18	XR	Right electrode
19	DISP_ON	Display control H: On \ L:Off
20	YD	Bottom electrode
21	XL	Left electrode
22	YU	Top electrode

The drawing illustrates the mechanical specifications of the 480 x RGB x 272 module. It includes three views: a top view showing the overall dimensions and internal layout, a side view showing the profile and mounting features, and a bottom view showing the PCB layout and component locations.

Top View Dimensions:

- Overall width: 106.70
- TP OD: 105.50
- TP VA: 98.70
- Frame VA: 98.16
- TP AA: 96.70
- AA: 95.04
- TP OD: 67.20
- TP VA: 57.50
- Frame VA: 56.86
- TP AA: 55.50
- AA: 53.86
- TP OD: 69.60
- TP VA: 57.50
- Frame VA: 56.86
- TP AA: 55.50
- AA: 53.86

Side View Dimensions:

- Overall height: 7.19
- TP OD: 6.60
- TP VA: 5.00
- Frame VA: 4.14
- TP AA: 5.10
- AA: 4.78
- TP OD: 6.60
- TP VA: 5.00
- Frame VA: 4.14
- TP AA: 5.10
- AA: 4.78

Bottom View Dimensions:

- Overall width: 103.50
- TP OD: 96.30
- TP VA: 96.30
- Frame VA: 88.30
- TP AA: 96.30
- AA: 88.30
- TP OD: 103.50
- TP VA: 96.30
- Frame VA: 88.30
- TP AA: 96.30
- AA: 88.30

Pinout Table:

PIN	SYMBOL
1	GND
2	VDD
3	BLE
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	RESET
17	NC
18	XR
19	DISP ON
20	YD
21	XL
22	YU

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

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