TFT DISPLAY SPECIFICATION

WINSTAR Display Co.,Ltd.
華凌光電股份有限公司

SPECIFICATION

MODULE NO.:   WF70C9SYAB4MNN0

General Specification

Item	Dimension	Unit
Size	7.0	inch
Dot Matrix	280 x RGBx1424(TFT)	dots
Module dimension	38.2(H) x 186.62 (V) x 4.03 (D)	mm
Active area	33.60 (H) x170.88(V)	mm
Pixel pitch	0.12(H) x 0.12(V)	mm
LCD type	TFT, Normally Black, Transmissive	
Viewing Angle	80/80/80/80	
Aspect Ratio	1:5	
TFT Driver IC	OTA7290N-C or equivalent	
TFT Interface	4-Lanes MIPI	
Backlight Type	LED, Normally White	
Touch Panel	Without Touch Panel	
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	℃

Electrical Characteristics

TFT LCD Module

Item	Symbol	Min.	Typ.	Max.	Unit
Analog Supply voltage	VCC	3.0	3.3	3.6	V
Analog supply current	I_{CC}	-	115	175	mA
Logic input voltage	VIH	0.7*VCC	-	VCC	V
	VIL	GND	-	0.3*VCC	V

Backlight Driving Conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	-	-	240	-	mA
LED voltage	VLED+	5.5	6.0	6.8	V
LED Life Time	-	-	50,000	-	Hr

Interface

LCM PIN Definition

Pin No.	Symbol	Description
1	GND	Ground.
2	D3N	MIPI data input pins
3	D3P	
4	GND	Ground.
5	D2N	MIPI data input pins
6	D2P	
7	GND	Ground.
8	CLKN	MIPI clock input pins.
9	CLKP	
10	GND	Ground.
11	D1N	MIPI data input pins
12	D1P	
13	GND	Ground.
14	D0N	MIPI data input pins
15	D0P	
16	GND	Ground.
17	GND	Ground.
18	TE	Tearing effect output pin to synchronize to frame writing. If not used, open this pin
19	RESET	Reset signal pin
20	GND	Ground.
21-23	VCC	Power supply
24	GND	Ground.
25-26	NC	Not connect
27-28	VLED-	LED cathode
29-30	VLED+	LED anode

Contour Drawing

TFT FPC

PIN No.	SYMBOL	PIN No.	SYMBOL
1	GND	16	GND
2	D3N	17	GND
3	D3P	18	TE
4	GND	19	RESET
5	D2N	20	GND
6	D2P	21	VCC
7	GND	22	VCC
8	CLKN	23	VCC
9	CLKP	24	GND
10	GND	25	NC
11	D1N	26	NC
12	D1P	27	VLED-
13	GND	28	VLED-
14	D0N	29	VLED+
15	D0P	30	VLED+

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