RAYSTAR

曜凌光電股份有限公司

Web: www.raystar-optronics.com E-mail: sales@raystar-optronics.com

RF3500D-AYW-MNN

SPECIFICATION

General Specifications

- Size: 5.0 inch
- Dot Matrix: 720× 3(RGB) ×1280 dots
- Module dimension: 66.10 (W) × 120.4 (H) ×1.85 mm
- Active area: 62.1 (W) × 110.4 (H) mm
- Dot pitch: 0.08625(W) × 0.08625(H) mm
- LCD type: TFT, Normally Black, Transmissive
- Viewing angle: 80/80/80/80
- Aspect Ratio: 16:9
- Backlight Type: LED, Normally White
- With /Without TP: Without TP
- Surface: Glare

*Color tone slight changed by temperature and driving voltage.

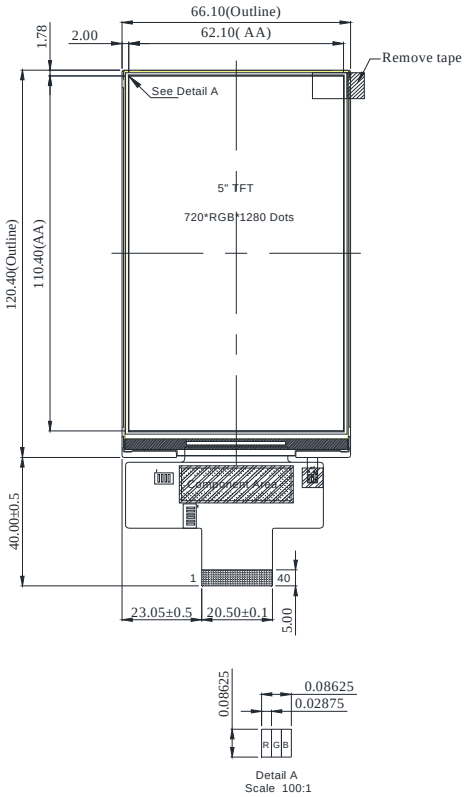
Interface

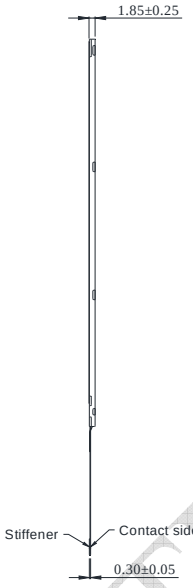
1. LCM PIN Definition

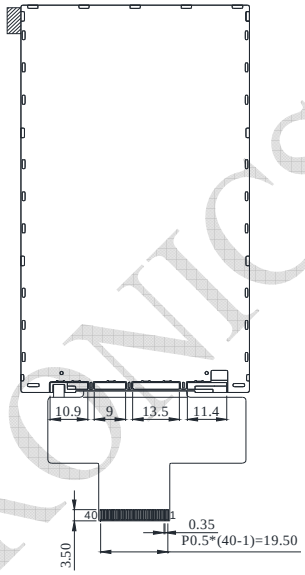
Pin	Symbol	Function
1	NC/TP_GND	No connection
2	NC/TP_SDA	No connection
3	NC/TP_SCL	No connection
4	NC/TP_INT	No connection
5	NC/TP_RST	No connection
6	NC/YU	No connection
7	NC/XL	No connection
8	NC/YD	No connection
9	NC/XR	No connection
10-11	VCI	Power supply for analog circuits. Connect to an external power supply of 2.5V to 3.6V
12-13	NC	No connection
14	RESET	The external reset input Initializes the chip with a low input. Be sure to execute a power-on reset after supplying power. Fix to VDDI level when not in use.
15	TE	Tearing effect output pin. Leave the pin open when not in use.
16	NC	No connection
17-18	GND	Power ground
19-20	IOVCC	Power supply for analog circuits. Connect to an external power supply of 1.65V to 3.6V
21	GND	Power ground
22	D3P	MIPI DSI differential data pair. (Data lane 3)
23	D3N	Leave it open or fix to LVDSVSS level when not in use.
24	GND	Power ground
25	D2P	MIPI DSI differential data pair. (Data lane 2)
26	D2N	Leave it open or fix to LVDSVSS level when not in use.
27	GND	Power ground
28	CLKP	MIPI DSI differential clock pair
29	CLKN	Leave it open or fix to LVDSVSS level when not in use.
30	GND	Power ground
31	D1P	MIPI DSI differential data pair. (Data lane 1)
32	D1N	Leave it open or fix to LVDSVSS level when not in use.
33	GND	Power ground
34	D0P	MIPI DSI differential data pair. (Data lane 0)
35	D0N	Leave it open or fix to LVDSVSS level when not in use.
36-37	GND	Power ground
38	LED+	Power for LED backlight anode
39	LED1-	Power for LED1 backlight cathode
40	LED2-	Power for LED2 backlight cathode

RAYSTAR OPTRONICS

Contour Drawing







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

PIN No.	Pin Name
1	NC/TP_GND
2	NC/TP_SDA
3	NC/TP_SCL
4	NC/TP_INT
5	NC/TP_RST
6	NC/YU
7	NC/XL
8	NC/YD
9	NC (XR)
10	VCI
11	VCI
12	NC
13	NC
14	RESET
15	TE
16	NC
17	GND
18	GND
19	IOVCC
20	IOVCC
21	GND
22	D3P
23	D3N
24	GND
25	D2P
26	D2N
27	GND
28	CLKP
29	CLKN
30	GND
31	D1P
32	D1N
33	GND
34	D0P
35	D0N
36	GND
37	GND
38	LED+
39	LED1-
40	LED2-

RAYSTAR OPTRONICS

Absolute Maximum Ratings

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

Electrical Characteristics

1. Typical Operation Conditions

Item	Symbol	Values			Unit
		Min	Typ	Max	
Power supply for analog circuit	VCI	2.5	3.3	3.6	V
Power supply for logic circuit	IOVCC	1.65	1.8	3.6	V
Current for Driver	IDD	-	44		mA

2. Backlight Driving Conditions

Parameter	Symbol	Min	Typ	Max	Unit
LED current	ILED	-	40	-	mA
LED voltage	VLED+	19.6	-	23.8	V
LED Life Time		30,000	-	-	Hr

RAYSTAR OPTRONICS