

# TFT DISPLAY SPECIFICATION



RAYSTAR

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## RFB703400A-AYW-MNN

### General Specifications

- Size: 3.4 inch
- Dot Matrix: 800 x RGB x 800 (TFT) dots
- Module dimension: 94.9 (W) x 96.95 (H) x 2.22 (D) mm
- Active area: 87.6 x 87.6 mm
- Pixel pitch: 0.1095 x 0.1095 mm
- LCD type: TFT, Normally black, Transmissive
- Viewing Angle: 85/85/85/85 (IPS)
- IC: ILI9881C
- Interface: 4-Lanes MIPI
- Backlight Type: LED, Normally White
- Touch Panel: Without Touch Panel
- Surface: Anti-Glare

# Interface

## LCM PIN Definition

Pin	Symbol	Function
1	VLED+	VLED backlight anode.
2	VLED-	VLED backlight cathode.
3	VLED-	VLED backlight cathode.
4	VCI	Power supply for the analog power
5	IOVCC	Power supply for the logic power and I/O circuit (IOVCC = VDDI)
6	RESET	Reset signal(low active) (RESET=RESX)
7	TE	Tearing effect output
8	NC	No connection
9	GND	Power ground
10	D0P	MIPI-DSI data lane 0 positive input pin.
11	D0N	MIPI-DSI data lane 0 negative input pin
12	GND	Power ground
13	D1P	MIPI-DSI data lane 1 positive input pin.
14	D1N	MIPI-DSI data lane 1 negative input pin.
15	GND	Power ground
16	CLKP	MIPI-DSI data lane positive input pin.
17	CLKN	MIPI-DSI data lane negative input pin.
18	GND	Power ground
19	D2P	MIPI-DSI data lane 2 positive input pin.
20	D2N	MIPI-DSI data lane 2 negative input pin
21	GND	Power ground
22	D3P	MIPI-DSI data lane 3 positive input pin.
23	D3N	MIPI-DSI data lane 3 negative input pin
24	GND	Power ground
25-30	NC	No connection



## Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	°C
Storage Temperature	TST	-30	—	+80	°C
Power Supply voltage 1	VCI~GND	-0.3	—	+3.6	V
Power Supply voltage 2	IOVCC~GND	-0.3	—	+3.3	V
Logic Input Voltage Range	VIN	-0.3	—	IOVCC+0.3	V
Logic Output Voltage Range	VO	-0.3	—	IOVCC+0.3	V

## Electrical Characteristics

Operating conditions:

Item	Symbol	Min	Typ	Max	Unit
Supply voltage for analog circuit	VCI	2.5	3.3	3.6	V
Supply voltage for logic circuit	IOVCC	1.65	1.8	3.3	V
Current for VCI	I-vci	-	20	30	mA
Current for IOVCC	I-iovcc	-	20	30	mA
Input voltage "H" level	VIH	0.7*IOVCC	—	IOVCC	V
Input voltage "L" level	VIL	GND	—	0.3*IOVCC	V
Output voltage "H" level	VOH	0.8*IOVCCI	—	IOVCC	V
Output voltage "L" level	VOL	GND	—	0.2*IOVCC	V

LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	I <sub>LED</sub>	—	40	—	mA
LED voltage	V <sub>LED</sub>	22.0	24.0	26.4	V
LED Life Time		—	30000	—	Hr