

TFT DISPLAY SPECIFICATION



RAYSTAR

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RFM1500A-AYW-LNN

General Specifications

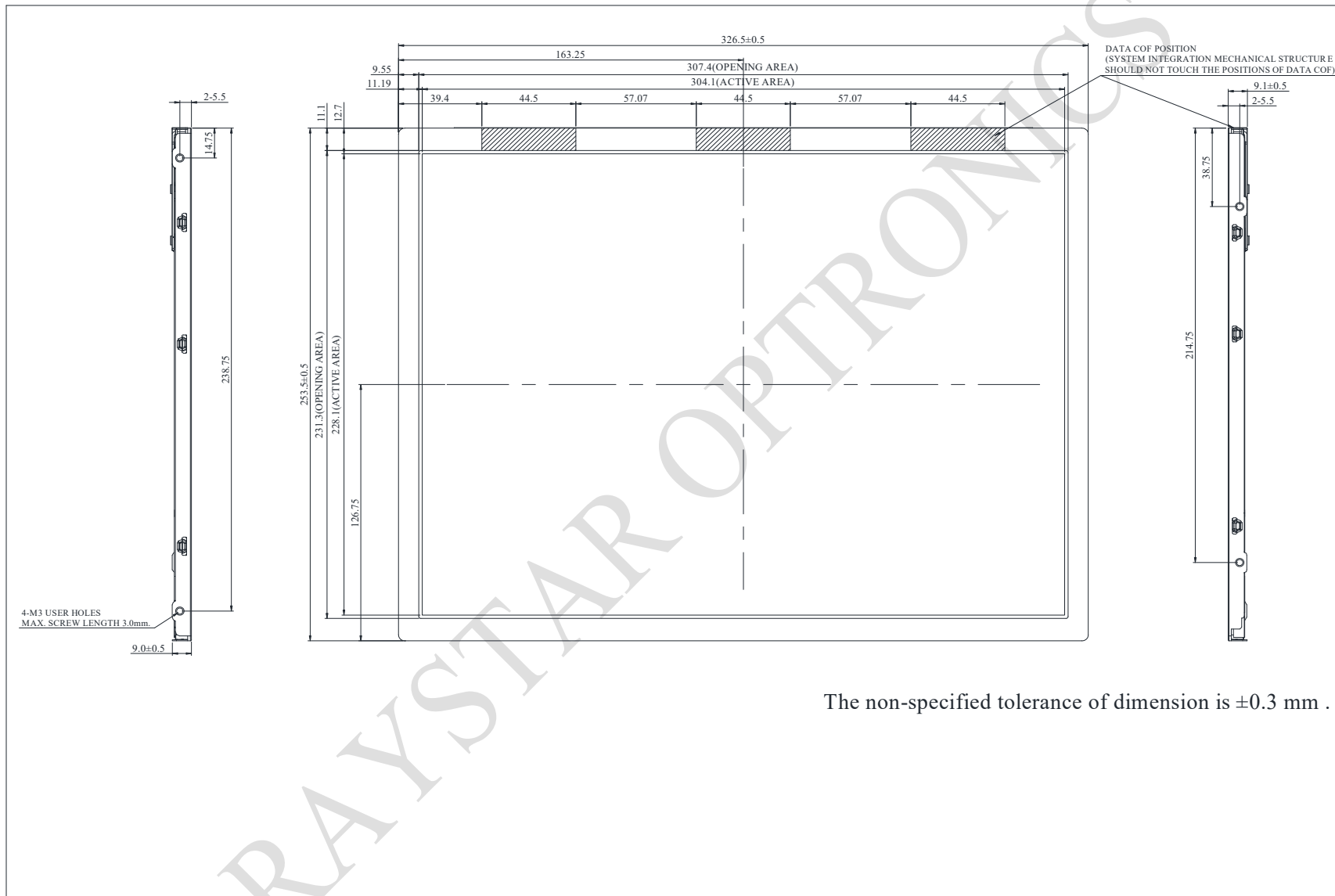
- Size: 15.0 inch
- Dot Matrix: 1024 x RGB x 768 (TFT) dots
- Module dimension: 326.5 x 253.5 x 9.1 mm
- Active area: 304.1 x 228.1 mm
- Dot pitch: 0.297 x 0.297 mm
- LCD type: TFT, Normally Black, Transmissive
- Viewing Angle: 88/88/88/88 (IPS)
- Backlight Type: LED, Normally White
- Interface: LVDS
- Touch Panel: Without Touch Panel
- Surface: Anti-Glare

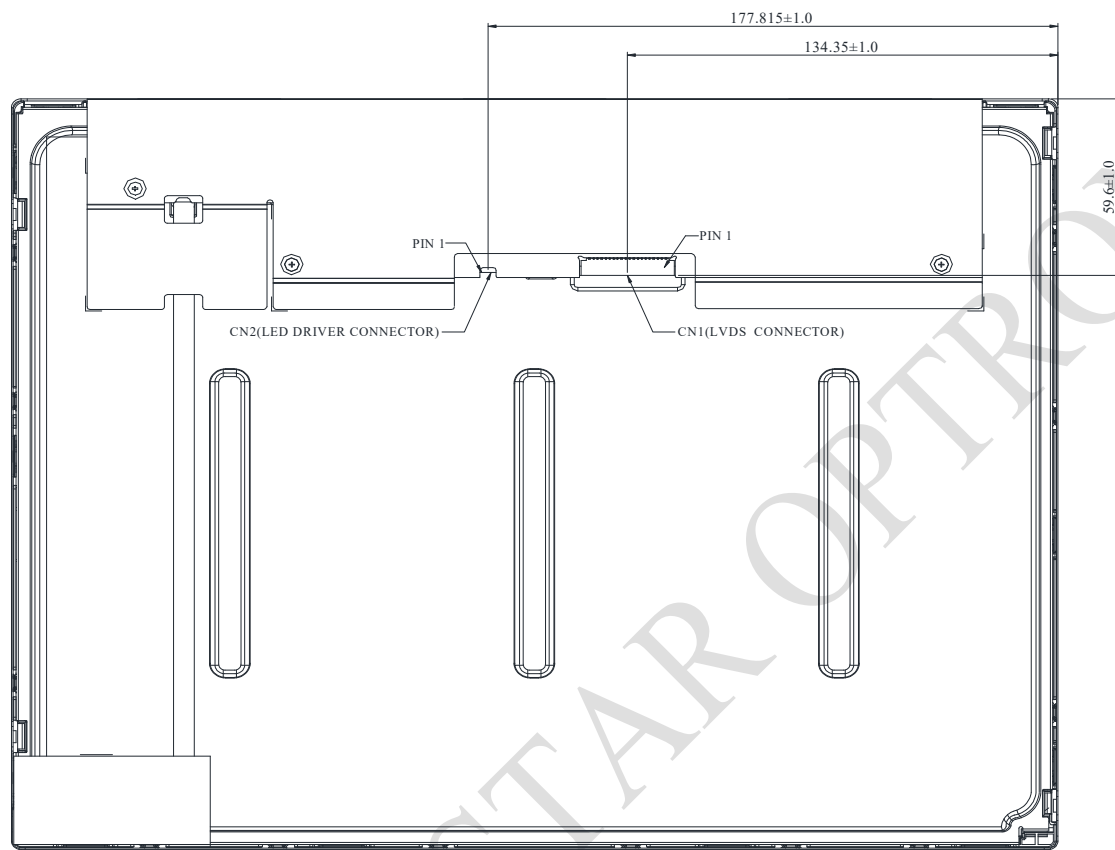
Interface

LCM PIN Definition

Pin No.	Symbol	Function	Polarity
1	VCC	Power Supply +3.3V(typical)	
2	VCC	Power Supply +3.3V(typical)	
3	NC	No Connction (Reserve for INX test)	
4	LR/UD	Reverse Scan Control H or NC = Normal Mode. L = Horizontal/ Vertical Reverse Scan.	
5	RX0-	LVDS Differential Data Input	Negative
6	RX0+	LVDS Differential Data Input	Positive
7	GND	Ground	
8	RX1-	LVDS Differential Data Input	Negative
9	RX1+	LVDS Differential Data Input	Positive
10	NC	No Connction (Reserve for INX test)	
11	RX2-	LVDS Differential Data Input	Negative
12	RX2+	LVDS Differential Data Input	Positive
13	GND	Ground	
14	RXCLK-	LVDS Differential Data Input	Negative
15	RXCLK+	LVDS Differential Data Input	Positive
16	GND	Ground	
17	RX3-	LVDS Differential Data Input	Negative
18	RX3+	LVDS Differential Data Input	Positive
19	NC	No Connction (Reserve for INX test)	
20	SEL68	LVDS 6/8 bit select function control, High → 6bit Input Mode Low or NC→ 8bit Input Mode	

Contour Drawing





CN2

PIN NO.	SYMBOL
1	V _i
2	VGND
3	EN
4	Dimming
5	NC

CN1

PIN NO.	SYMBOL
1	VCC
2	VCC
3	NC
4	LR/UD
5	RX0-
6	RX0+
7	GND
8	RX1-
9	RX1+
10	NC
11	RX2-
12	RX2+
13	GND
14	RXCLK-
15	RXCLK+
16	GND
17	RX3-
18	RX3+
19	NC
20	SEL68

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

Absolute Maximum Ratings

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

Electrical Characteristics

TFT LCD MODULE

Parameter		Symbol	Value			Unit
			Min.	Typ.	Max.	
Power Supply Voltage		VCC	3.0	3.3	3.6	V
Ripple Voltage		VRP	-	-	100	mVp-p
Rush Current		IRUSH	-	-	(2.0)	A
Power Supply Current	White	Icc	-	(800)	(960)	mA
	Black		-	(670)	(800)	mA
LVDS differential input voltage		Vid	200	-	600	mV
LVDS common input voltage		Vic	1.0	1.2	1.4	V
Differential Input Voltage for LVDS Receiver	"H" Level	VIH	-	-	100	mV
	"L" Level	VIL	-100	-	-	mV
Terminating Resistor		RT	-	100	-	Ohm