



RAYSTAR

RAYSTAR Optronics, Inc.
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RFC570V-SCW-LNN

General Specifications

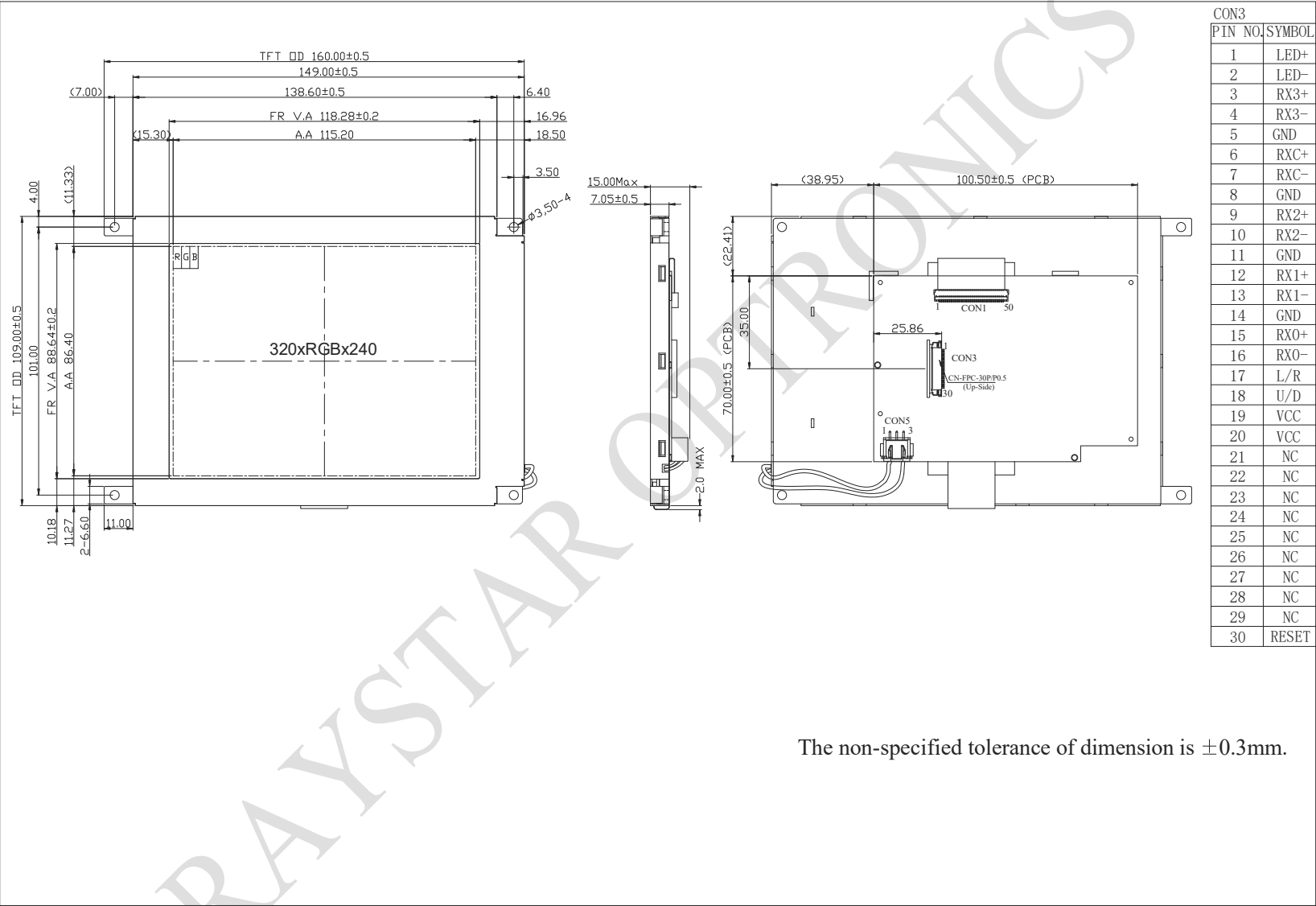
- Size: 5.7 inch
- Dot Matrix: 320 x RGB x 240(TFT) dots
- Module dimension: 160.0(W) x 109.0(H) x 15.0(D) mm
- Active area: 115.20 x 86.40 mm
- Dot pitch: 0.12 x 0.36 mm
- LCD type: TFT, Normally White, Transmissive
- View Direction: 12 o'clock
- Gray Scale Inversion Direction: 6 o'clock
- IC: SN75LVDS82DGGR
- Interface: LVDS
- Aspect Ratio: 4:3
- Backlight Type: LED, Normally White
- Touch Panel: Without Touch Panel
- Surface: Glare

Interface

LCM PIN Definition

Pin	Symbol	Function
1	LED+	Power supply for Backlight +
2	LED-	Power supply for Backlight -
3	RX3+	+ LVDS differential data input
4	RX3-	- LVDS differential data input
5	GND	Ground
6	RXC+	+ LVDS differential clock input
7	RXC-	- LVDS differential clock input
8	GND	Ground
9	RX2+	+ LVDS differential data input
10	RX2-	- LVDS differential data input
11	GND	Ground
12	RX1+	+ LVDS differential data input
13	RX1-	- LVDS differential data input
14	GND	Ground
15	RX0+	+ LVDS differential data input
16	RX0-	- LVDS differential data input
17	L/R	Shift direction of device internal shift register control.
18	U/D	Up/down selection
19	VCC	Digital power: 3V~3.6V
20	VCC	Digital power: 3V~3.6V
21-29	NC	No connection
30	RESET	Hardware reset

Contour Drawing



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

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	0	—	+70	°C
Storage Temperature	TST	-30	—	+80	°C

Electrical Characteristics

Operating conditions:

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For LCM	VCC	—	3.0	3.3	3.6	V
Supply Current For LCM	ICC	—	—	220	330	mA
Input High Volt.	VIH	—	0.7 VCC	—	VCC	V
Input Low Volt.	VIL	—	0	—	0.3 VCC	V

LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	-	-	140	-	mA
Power Consumption	-	1260	-	1470	mW
LED voltage	VBL+	9.0	-	10.5	V
LED Life Time	-	-	50,000	-	Hr