



RAYSTAR

曜凌光電股份有限公司

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RFT46AA-AIW-DNN

SPECIFICATION

General Specifications

- Size: 4.6 inch
- Dot Matrix: 800 x RGB x 320(TFT) dots
- Module dimension: 120.7(W) x 56.16(H) x 3.1(D) mm
- Active area: 108 x 43.2 mm
- Dot pitch: 0.045(W)x 0.135(H) mm
- LCD type: TFT, Normally White, Transmissive
- View Direction: 12 o'clock
- Gray Scale Inversion Direction: 6 o'clock
- Aspect Ratio: Bar Type
- Backlight Type: LED, Normally White
- With /Without TP: Without TP
- Surface: Anti-Glare

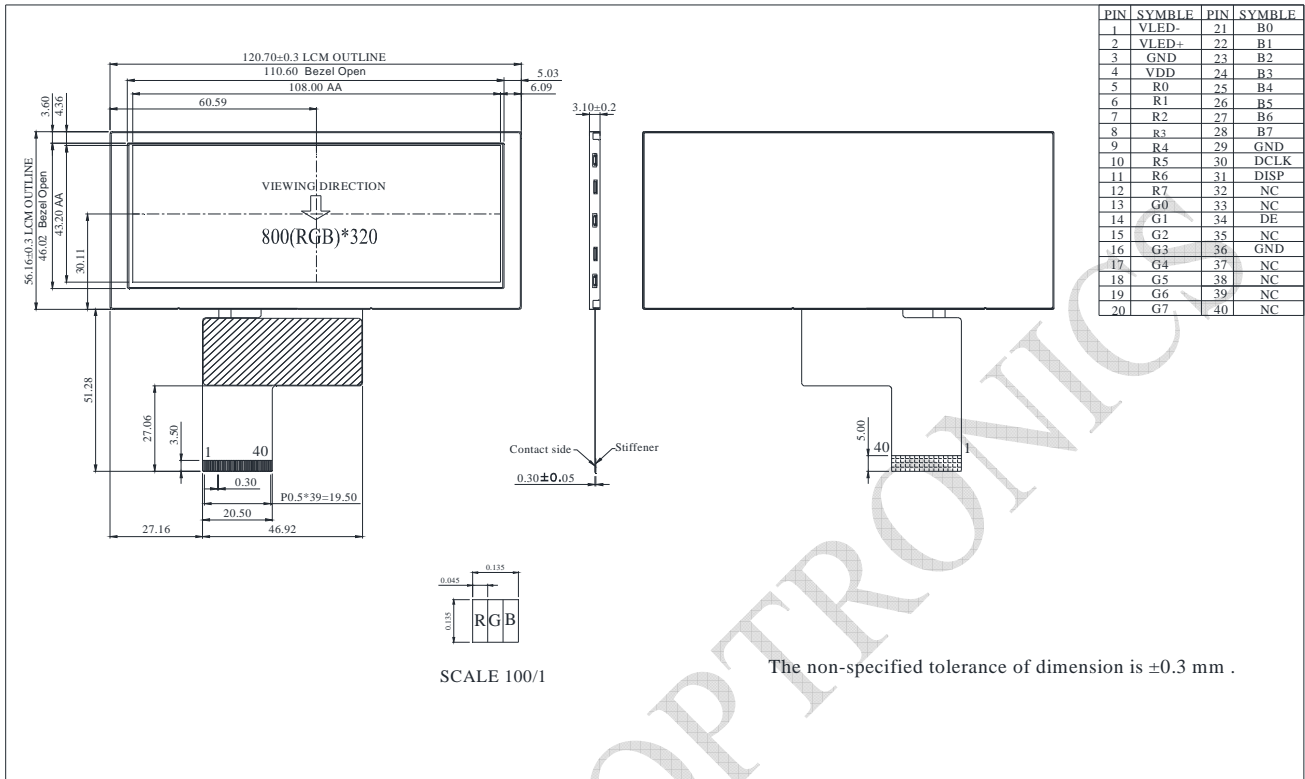
*Color tone slight changed by temperature and driving voltage.

Interface

LCM PIN Definition

No.	Symbol	Description
1	VLED-	Backlight LED Cathode
2	VLED+	Backlight LED Anode.
3	GND	System Ground
4	VDD	Power supply for logic operation
5~12	R0~R7	Data bus
13~20	G0~G7	Data bus
21~28	B0~B7	Data bus
29	GND	System Ground
30	DCLK	Pixel clock signal
31	DISP	Display on/off control
32	NC	No connect
33	NC	No connect
34	DE	Data Enable
35	NC	No connect
36	GND	System Ground
37	NC	No connect
38	NC	No connect
39	NC	No connect
40	NC	No connect

Contour Drawing



Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	–	+70	°C
Storage Temperature	TST	-30	–	+80	°C

Electrical Characteristics

Operating conditions

Item	Symbol	Values			Unit
		Mlin	Typ	Max	
Power Voltage	DVDD	3.0	3.3	3.6	V
	AVDD	10.2	10.4	10.6	V
	VGH	15.3	16.0	16.7	V
	VGL	-6.7	-6.0	-5.3	V
Input signal voltage	VCOM	3.09	4.09	5.09	V
Input logic high voltage	VIH	0.7DVDD		DVDD	V
Input logic low voltage	VIL	0		0.7DVDD	V

Current Consumption

Item	Symbol	Values			Unit
		Min	Typ	Max	
Current for driver	IGH	-	0.50	1	mA
	IGL	-	0.54	1	mA
	IDVDD	-	4.2	10	mA
	IAVDD	-	19	50	mA

LED driving conditions

Item	Symbol	Min	Typ	Max	Unit
Forward Current	IF	-	40	50	mA
Forward Voltage	VF		19.6	21	V
Backlight Power consumption	WBL	-	0.784	-1.05	W
LED Lifetime		-	25000	-	Hrs